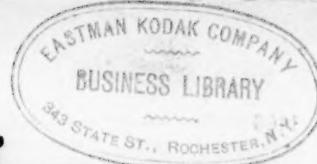


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VOLUME XI,

NEW YORK, NOVEMBER 1, 1922

No. 18

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[NOVEMBER 1, 1922]

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WILLIAMS HAYNES, President

IRA P. MACNAIR, Secretary F. F. BURGIN, Treasurer
Publication Office3 PARK PLACE, NEW YORK, U. S. A.
Telephone 0440 Barclay Cable ChemmarketHome Life Bldg., Washington, D. C.
80 Fenchurch st., London, E. C. 3.

19 Rue Auber, Paris

40 Gr-Burstah, Hamburg

18 Yamashita-cho Kyobashi-Ku, Tokyo

Entered as second-class matter, Dec. 7, 1914, at the post office at New York, N. Y., under the Act of March 3, 1879.

SUBSCRIPTION RATES

United States, Cuba and Mexico \$4.00 a year; Foreign \$5.00 a year, payable in advance. Current Copies, 10 cents. Back Copies, 25 cents. A Binder for this Journal @ \$1.00 Postpaid.

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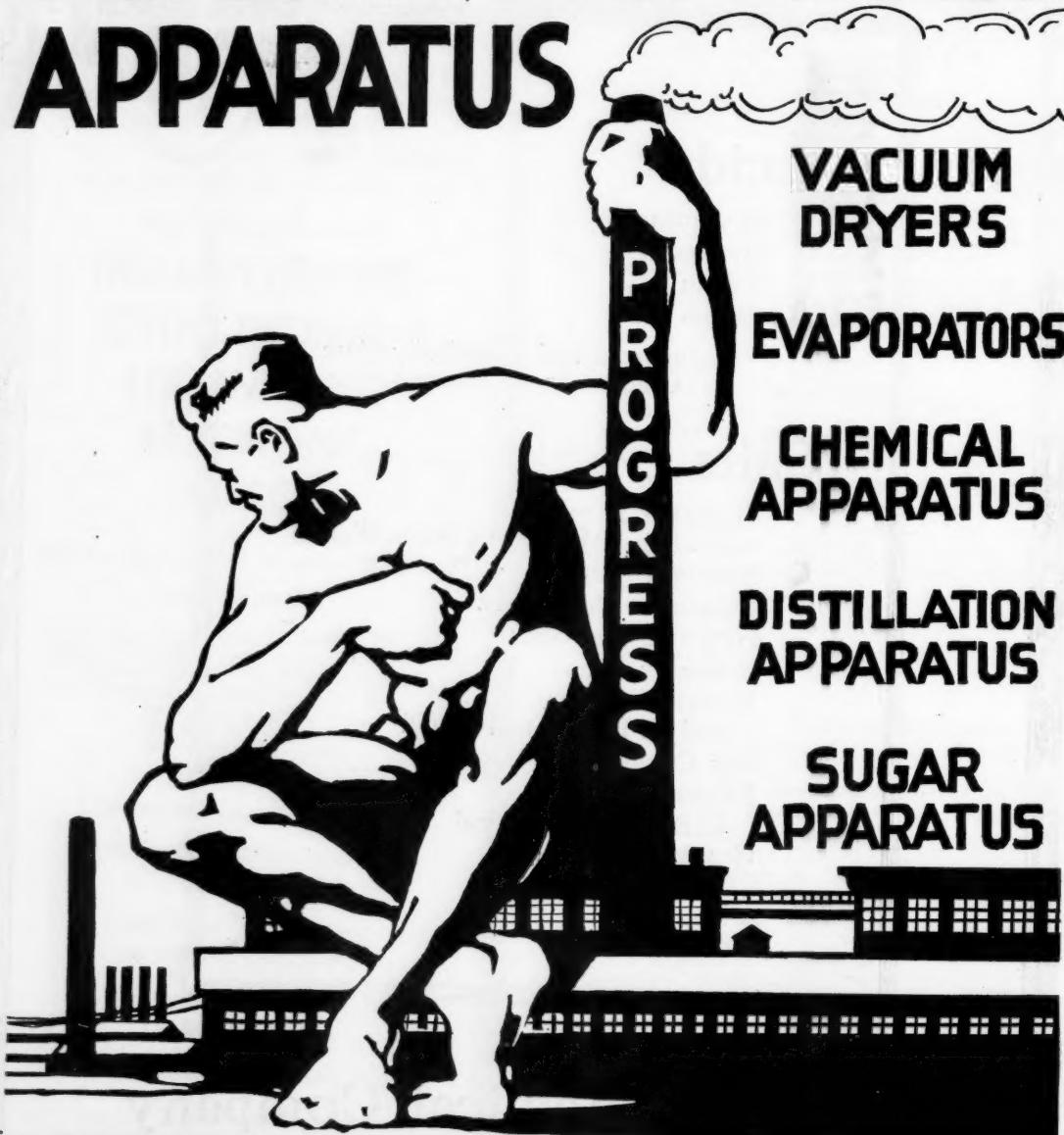
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VOLUME XI, NUMBER 18

[NOVEMBER 1, 1922]

IGNORANCE AND PREJUDICE

In a Government based upon universal suffrage two dangerous, double-edged political weapons are ignorance and prejudice. Their careless use is a matter of serious concern. Their selfish use should be promptly punished in the way all politicians, however ignorant or prejudiced, understand—at the polls.

The tariff affects the business of this country vitally. Unfortunately it is a political issue, and the present campaign has given us many bad examples of the dangers of mixing politics with business. Two very pretty instances of the appeal to ignorance and prejudice that will strike close to the chemical industry have recently been given by the Montclair (N. J.) Times of September 30th and the Manchester (N. H.) "Mirror" of October 11th.

The "Manchester Mirror" seemed to believe that the higher cost of certain chemicals would be felt by the public when it went to a drug store to have a prescription filled. This of course is the logical spot to touch when appealing to the individual. Does the "Manchester Mirror" know that the price of aspirin at the druggists remained constant all during the war at 20c for a box containing one dozen tablets, while the price of aspirin (acetyl-salicylic acid) in the primary market ranged from 85c to \$2.50 per pound? The "Mirror" discusses camphor in its editorial, and states that the price has jumped 50 per cent since the tariff went into effect. Where did the writer obtain this information? The price of Japanese camphor was 83c per pound before the tariff bill was passed and is 86c per pound now, the advance being due to an acute shortage of spot supplies. American makers have not changed their prices.

The correspondent of the Montclair paper picks out fourteen price advances which DRUG & CHEMICAL MARKETS advised its subscribers had been made the week the new tariff bill was passed, and makes cut a splendid case against the new schedules, totally ignorant of how chemical prices are quoted, of what the rates of the tariff are, of conditions in the chemical markets. The majority of these chemicals were in the wood distillate group—wood alcohol, acetate of lime, formaldehyde, etc.—none of which is imported in appreciable quantities and most of which, on the contrary are important exports. Opium, with the same tariff rate in both old and new schedules was another, and so was cocaine hydrochloride, the importation of which is absolutely forbidden under the narcotic regulations, but which naturally advanced on higher opium prices.

Such ignorance is forgivable; but the prejudice

that would make a political case out of the trade question that quicksilver has advanced one dollar to \$68 a flask is wicked or silly. Mercury is always a highly speculative item; but an advance of \$67 in one week would be too much even for the speculators. It is ridiculous on the face of it, yet this letter writer succeeded in conveying that impression.

EXPANDING OUR FOREIGN TRADE

How foreign trade develops when carefully nursed is interestingly illustrated by a recent investigation made by the Spanish Chamber of Commerce in New York regarding the trade between the two countries in olive oil and American goods which are in demand in Spain. Before the recent war the United States took about 800,000 kilos of refined olive oil, these figures representing Spain's exports to us in 1913. In 1919 the amount of oil exported to the United States was 32,000,000 kilos. In the two succeeding years the amount exported was 8,600,000 kilos in 1920, and 4,400,000 in 1921, approximately.

Spain's exports were stimulated during the war because Italy and France were unable to ship. The demand upon Spain became so great that the Spanish Government placed an embargo on exports of olive oil lest the country stocks should become exhausted. It must be remembered that Spain is the largest producer of olive oil in the world. Of the entire world production of 1,100,000 metric tons in 1921, Spain produced 325,000 metric tons of 2,204.6 pounds. Italy's share in the world output was 210,000 tons, and Greece produced less than 160,000 tons. Western Andalusia in Spain is the largest producing district, and Eastern Andalusia is next in importance. The countries absorbing these enormous amounts of olive oil in exchange for manufactured goods and certain raw materials for Spanish industries are the United States, Italy, France, Argentina, Denmark, Portugal, and Great Britain, but the latter took only 1,500,000 kilos in 1921 compared with 4,400,000 kilos taken by the United States.

The trade advantage is with the United States, and we are sending cottonseed oil; copper sulfate for the vineyards; caustic soda for the industries; tin plate for the sardine factories in Northwestern Spain; material for tramways at Coruna and Vigo; automobiles for Barcelona, Madrid, Seville and Bilbao; American corn, flour, and cotton; material for piers and dredging machinery for port improvements under way at Valencia, Alicante, Bilbao, Vigo and Algeciras; and American built port-

[NOVEMBER 1, 1922]

able houses which are in demand at Barcelona owing to the housing shortage and high rentals.

Yet olive oil is only one of Spain's desirable exports. British merchants are located in her chief ports and are making strenuous efforts to increase the trade with England by offering a market for oils, nuts, raisins, spices, sardines, crude drugs, quicksilver, and art objects. The American market is preferred for many products, however, and if importers will give the Spanish producers the opportunity to trade on favorable terms the commerce between the two countries can be greatly increased.

The wholesale druggists passed a resolution at the Colorado Springs convention urging the appointment of an Advisory Committee on Alcohol, on the ground that the wholesale druggists are held responsible for the legitimate handling of supplies released by the Prohibition Unit for industrial and medicinal purposes, and they should have a voice in making the regulations, now becoming burdensome and unreasonable. The wholesaler knows the necessities of the trade and the practical methods of supplying the demand, and it is apparent that the Prohibition and Revenue officials know very little of the business end of the problem. An Advisory Committee would be of great help to them in enforcing the law and revision of the regulations would assist the trade in performing its part in supplying legitimate business demands.

Advertising is becoming more and more a medium through which the general public is being educated. A short story or description of the manufacture or preparation of a product never fails to interest a reader and he usually reads and retains the impression made upon his mind. The series of graphic and descriptive stories of chemicals and their uses in the everyday life of the average man in the advertisement of a large chemical company carries a message of instruction. This is in line with our ideas on "letting the public be told." The lack of knowledge of chemicals is appalling, and any medium that serves to enlighten the people truthfully is commendable. In this way the public may learn that chemicals play an important part in economic needs.

The answer of the Chemical Foundation to the Government suit for the return of German patents, seized during the war and sold to the Foundation, makes not only a sweeping denial of the charge of conspiracy but goes into details by reviewing the legal steps which were taken for the transfer of the Government's title in the patents to the incorporated company formed to handle them for the benefit of the American people. The care with which every phase of the situation was explained to the Acting Secretary of State, the President, and members of Congress in a report prepared by the Alien Property Custodian, supports the position of the Foundation, and makes the charge of conspiracy seem entirely irrelevant to the question at issue.

The story of the firm making dress suits of casket cloth, as developed in a court case, last week, is probably the sequel of the one published during the war about the manufacturer who used a black dye for textiles that was designed for caskets. Knowledge of colors "fast" to light might have prevented the exposure.

A San Francisco news note says that an American has just installed the first match making machinery in China. How can we tell whether this is a notice for a matrimonial agency, or a new consuming company in the market for red phosphorus, chlorate of potash, glue and dyestuffs?

Many Men: Many Minds

Hair-raising stories are found on tonic bottles, says an exchange.

It is good law and good common sense that a man has no right, title or interest in a job after he has left it and drawn his wages—Shoe and Leather Reporter.

An American steamship captain was forced to lay in a stock of brandy for steerage passengers, under the British law, before he could obtain his clearance papers at London. Very little actual force was necessary. The British do not appreciate the stand taken by the American Prohibition Commissioner that whiskey is not a cure for either seasickness or snake bite.

No one can be impressed more than myself with the dangers and losses to American trade and commerce from the present instability in Europe, said Secretary Hoover in a speech at Toledo. The diminished purchasing power for our products, the very practical questions of fluctuating exchange in its creation of a speculative element in all international business—all of them affect our own welfare directly. Yet, the retrospect of the last three years is not one of discouragement over Europe's progress. America earnestly wishes to be helpful to Europe but economic matters require a degree of realism that will do justice to the American people as well as be helpful to peoples abroad.

CONFERENCE WILL DISCUSS "WASTE"

The sixth annual New York State Industrial Conference will be called to order Tuesday evening, Nov. 21, at Hotel Lafayette, Buffalo, by State Industrial Commissioner Henry D. Sayer. The speakers will be Governor Nathan L. Miller and W. D. Baldwin, of the Otis Elevator Co. The conference will be formally opened Wednesday morning, Nov. 22. The opening address will be by L. W. Wallace, vice-chairman and engineer in charge of the National Committee on the Elimination of Waste and executive secretary of the Federated American Engineering Societies, on "Wasteful Industrial Habits." M. F. Simmons, of the General Electric Co., Schenectady, N. Y., will speak on "How to Prevent Waste of Materials."

General R. C. Marshall, Jr., General Manager Associated General Contractors of America, Washington, D. C., will open the Wednesday session with an address on "Waste Prevented by Improved Buildings, Equipment and Processes," and W. R. Bassett, president of the Miller, Franklin & Bassett Co., New York, will speak on "Waste Prevented by Accounting Systems."

To Build or Remodel?

An Expert's View as to Whether It Is Cheaper and More Efficient to Build a New Chemical Plant or Remodel an Old One

By JOHN G. AHLERS, Secretary-Treasurer of the Barney-Ahlers Construction Corporation

THE depression through which the chemical industry has passed, a depression that tested the industry to the limit, proved a blessing in disguise in more ways than one. Though it temporarily retarded the industry it resulted in developing resources and afforded the opportunity of a good look at manufacturing processes, plant layouts, possible by-products, new applications of old products and the discovery of new products. So alert has the industry been that it is not unreasonable to believe that within a short time

out by the greater expense involved in manufacturing under such unfavorable conditions.

Sometimes there is no saving at all to be effected in remodeling an old plant because of the vast amount of work involved when it is necessary to greatly strengthen foundations, beams, girders and columns, to provide for tanks, large machines, and other equipment. It is frequently impossible in old plants which are mostly of brick and steel to cut the new openings and change the columns and supporting members to permit the use of the latest machinery and the best layout. On the other hand, a new plant can be built to fit the exact needs of the business, to suit the machinery and the best operating layout so that materials will go through the plant in the most efficient way, and sometimes brick, steel and lumber from the old building can be salvaged and used in the new.

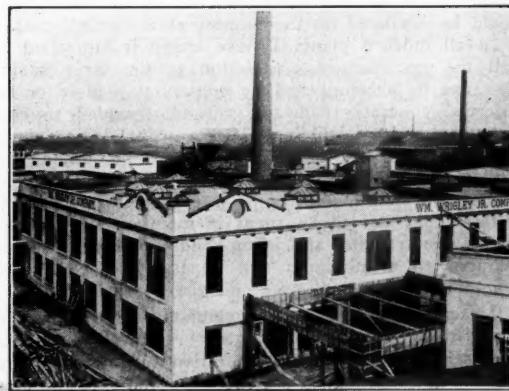
In one case, where we were called upon to remodel a plant for a manufacturer of refined oils, we had to reconstruct a five-story brick building with steel frame work and it was necessary to practically take out the entire interior of the building, put in new foundations for columns, new steel construction, new reinforced concrete floors and new monitors. The total cost of this reconstruction would have built an entirely new reinforced concrete building. There are usually difficulties that it is impossible to foresee, but which crop up in the course of the reconstruction work. What to the owners is a substantial building with four walls and windows proves to the engineer or constructor a weak skeleton of a structure with nowhere near the necessary strength to carry the loads and stresses that it will be called upon to carry. It must also be evident that a make-shift building sometimes involves different floor



Brewery Rebuilt into Oil Refinery

chemical plants throughout the country will be running full tilt. The development of new processes and new products has brought to the fore the question of the plant itself and the arrangement of processes, routing of materials, and similar things. It is a most natural thing to say that we will build an extension to our old plant or put a new department here or a new department there. That, in fact, is the way most plants have developed and to a certain extent it accounts for the hodge-podge arrangement of departments, processes and buildings in many plants.

There always comes a time in a business when it is a good thing to take a new, fresh look at things to see whether or not a sufficiently great improvement can be made so as to justify a complete rearrangement, and at times building anew instead of adding, or buying old plants and remodeling. In my engineering and contracting experiences I have almost invariably found that whereas it pays the manufacturer in ordinary industries to extend his plant or remodel it, the contrary is usually true in the chemical industry—that it seldom pays to remodel an old chemical plant for a new manufacturing process. This is due in part to the peculiar character of the chemical industry and partly to the rapid development of the industry which makes old ideas in manufacturing and plant layout liabilities rather than assets. In remodeling an old chemical plant it is frequently necessary to sacrifice efficient arrangement to the building layout or the building strength so as to be safe and not overload the floors, foundation, walls, etc. This is wrong. The small saving that might be effected by sticking to the wrong building layout or the wrong plant arrangement will be quickly wiped



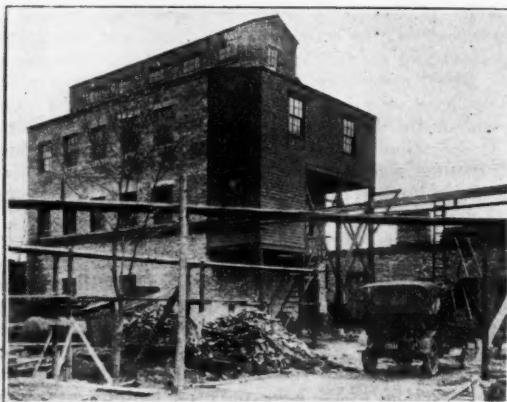
Reconstructed from Building Erected in 1853

levels, peculiar arrangements of wings and perhaps even the wrong number of stories. Engineers and contractors can render a real service to owners who are thinking of remodeling by having the courage to tell them the truth about remodeling.

[NOVEMBER 1, 1922]

In another instance during the world war, we were called upon to remodel a group of old buildings some of which dated from 1850, having at that time been used as a starch factory and later remodeled into a lumber mill. We were requested to make a study of fitting these buildings to a manufacturing plant. Our recommendations after a study of the old buildings were against spending the money to put them in proper condition, but the war being on and it being impossible to obtain new material for buildings, priority orders having been issued, the company decided to remodel the old building.

On another operation we found it advisable to recommend the construction of two entire new buildings rather than use old existing structures. Part of the ma-



Material in Old Buildings Used in New Structures

terial of the old buildings was used and an up-to-date manufacturing plant was secured. We often found it advisable to recommend the demolition of old wooden storage sheds and the construction of modern reinforced concrete platforms on which could be built very inexpensive standard steel and corrugated iron sheds. Where parts of such structures had to be heated they could be insulated on the interior at a nominal cost.

In all modern plants I have found it important to call the manufacturer's attention to the large saving that can be accomplished by constructing plain or reinforced concrete roadways, carefully graded to connect the various buildings of the plant. Where large quantities of material are carried from building to building, such roads will pay for themselves in very short time and thereafter be a continued profit. Very little money has to be spent in maintenance. In such plants the trucking and labor handling expense can be reduced to a minimum and general overhead correspondingly decreased.

I earnestly urge chemical manufacturers who have in mind plant extensions or plant remodeling to avail themselves of the close co-operation of progressive engineers and contractors who are in touch with the most efficient and modern ways of meeting such problems not only in the chemical industry but in numerous other industries. The most capable firms are usually glad to make a preliminary study and submit estimates to show what can be done. Very often it is impossible for a manufacturer to get these services from his own contracting department, lacking as it must outside viewpoint and experience.

Trade Notes and Personals

H. A. Stebbins, a manufacturing chemist of Brooklyn, N. Y., recently paid the San Francisco trade a visit.

Joseph Walker McSpadden, formerly of Marden, Orth & Hastings, has published a boy's book, "Stories of Robin Hood."

J. Treadwell Bullwinkel, formerly treasurer of the Peters, White Co., New York, was recently elected president of the Phosphate Mining Co.

The plant of the Vitrefrax Co., Los Angeles, Cal., was completely destroyed by fire on Oct. 15. Reconstruction was begun at once on lines that will increase the capacity of the plant.

In the chemical and oil products industries of New York State during August there was no increase in the number of employees or in earnings. Rates were increased 10 per cent in one plant making linseed oil.

J. V. N. Dorr returned a few weeks ago from a six months' trip to England, France and Germany, where he inspected numerous installations of his machinery in the metallurgical and chemical plants of those countries.

E. G. Bashmore, formerly chief chemist with Babcock & Wilcox, boiler manufacturers at Bayonne, N. J., died at Volk's Hotel, Woodside, L. I., from veronal poisoning, last week. Mr. Bashmore was a member of the Chemists' Club.

At a recent meeting of the American Electrochemical Society, in Montreal, an advisory committee was appointed to consult with the Bureau of Mines on its electrometallurgical research work and to recommend to the bureau lines of research and investigation.

Dr. A. R. L. Dohme, president of Sharp & Dohme, manufacturing chemists of Baltimore, has been made a member of the Baltimore Criminal Justice Commission, a permanent body created to aid the courts and other authorities in the suppression of the crime wave in the city. Dr. Dohme represents the Citywide Club.

The American Road Builders' Association, with headquarters at 37 W. 39th st., New York, is to hold the thirteenth Good Roads Congress in Chicago, Jan. 15 to 19. The meetings will be held at the Congress Hotel and the exhibit of highway machinery and road building materials will be held at Chicago Coliseum.

The Bureau of Foreign and Domestic Commerce has experienced much difficulty in getting the Chemical Division started. No successor to Dr. De Long has been appointed, and the Chemical Division will go along without any chief for the present. C. C. Concannon will be in charge when Mr. De Long relinquishes his work. Mr. Concannon has had practical experience and is well known in the trade.

American industry is spending about \$70,000,000 annually on scientific research, according to the Fabricated Production Department of the Chamber of Commerce of the United States. About one-half of this sum is spent by American manufacturers in the conduct of laboratory research, while the remainder is expended in experimental and development work in plants. As a result approximately one-half billion dollars is being saved annually by industry in this country.

U. S. Essential Oil Output Declines

Value of Production in 1921 Only \$3,271,120 Compared With \$5,698,404 in 1919—New Jersey Leads All States—Value of Products and Quantities Produced

Establishments engaged primarily in the manufacture of essential oils are located in New Jersey, New York, Connecticut and Pennsylvania, in the Middle West and in California. The numerical division of the 35 producers among the several States is as follows:

Connecticut	10
New Jersey	4
New York	5
Pennsylvania	1
Indiana	7
Michigan	6
Tennessee	1
California	1

New Jersey which leads in value of output in 1921 produced 38.2 per cent of the total. Detailed statistics for the years 1921 and 1919 are given in the following table:

Products	1921	1919	(Per cent of decrease) ¹
Total value of products....	\$3,271,120	\$5,698,404	42.6
Oil of:			
Peppermint, ² ....Pounds	152,134	236,233	35.6
Value	\$368,353	\$1,276,136	71.1
Spearmint, ³ ....Pounds	99,056	29,985	*230.4
Value	\$356,274	\$145,709	*144.5
Cloves, ....Pounds	199,200		
Value	\$385,376		
Nutmeg, ....Pounds	19,795		
Value	\$21,939		
Sandalwood, ....Pounds	23,835		
Value	\$178,968		
Other oils, ....Value	\$1,085,507		
Witch-hazel extract, ...Gallons	(4)	510,110	
Value	(4)	\$448,938	
All other products, ....Value	\$23,703	\$876,660	30.3

¹ Denotes increase.

² Crude and refined are combined to avoid disclosure of operations of individual establishments.

³ Value of products less cost of materials.

The statistics for 1921 and 1919 are summarized in the following statement. The figures for 1921 are preliminary and subject to such change and correction as may be necessary from a further examination of the original reports.

	1921 ¹	1919 ¹	Per cent of decrease ²
Number of establishments.....	35	78	...
Persons engaged	391	493	20.7
Proprietors or firm members.....	24	74	...
Salaried employees	73	98	...
Wage earners (average number)....	204	321	8.4
Salaries and wage payments.....	\$513,328	\$620,003	17.2
Salaries	\$145,837	\$228,790	36.3
Wages	\$367,491	\$391,213	6.1
Contract work	\$2,282	\$2,000	*14.1
Cost of materials	\$2,437,876	\$3,903,417	37.5
Value of products	\$3,271,120	\$5,698,404	42.6
Value added by manufacturer ³	\$833,244	\$1,794,987	53.6

¹Figures for 1921 do not include establishments reporting products under \$5,000 in value, thus excluding 33 establishments which employed 16 wage earners and in the aggregate reported products to the value of \$7,911. The figures for 1919, however, include 32 such establishments, which employed 19 wage earners and reported products valued at \$90,544.

²Percentages omitted where base is less than 100. *Denotes increase.

³Value of products less cost of materials.

Considerable fluctuation is noted in the number of wage earners in 1921. In August, the month of maximum employment, 389 wage earners were reported, and in November, the month of minimum employment, 224; the minimum representing 57.6 per cent of the maximum. The average number employed during the year

was 294 in 1921 as compared with 321 in 1919. A classification of the wage earners with reference to the prevailing hours of labor in establishments in which employed shows that for 119, or 40.5 per cent of the total (average) number, the prevailing hours per week were 48; for 51, or 17.3 per cent, they were between 48 and 60; and for 113, or 38.4 per cent, they were 60 per week.

GRASSE FLOWER CROPS GOOD

The value of essential oils, floral concretes, enflleurage, and allied products, produced at Grasse, France, exceeds \$20,000,000 annually, according to "Commerce Reports," issue of Oct. 23. The crops this year are reported good in most instances. Jasmine has been only partially gathered but if the warm dry weather continues it is expected that the crop will be good as flowers are abundant. It is a little early to make predictions as to the tuberose crop but it looks like an average year. Roses were so abundant that prices were lowered considerably and large stocks of the oil are on hand. The jonquil crop was poor this year and stocks of its products are limited. Orange flowers were more plentiful than was expected and the growers reduced their figures to 4.5 francs per kilo. Comparative prices for 1920, 1921, 1922 and before the war follow:

Varieties	Before the war	1920 Francs	1921 Francs	1922 Francs
Jasmine	2.00-3.50	26.00	7.50	6.00
Tuberoses	3.15	36.25	12.50	7.00
Parma violets	4.50	36.00	20.00	...
Victoria violets	4.50	25.00	10.00	28.00
Violet leaves	4.50	.50	.30	.25
Roses .....	.50-.75	8.40	4.30	1.00
Orange flower .....	.50-.75	10.20	13.00	4.50-5.75
Cassia	4.50	20.00	17.50	17.00
Jonquil	2.00	...	12.00	12.40

A number of uses has been discovered for the compound cyclohexanol ($C_6H_{11}CH$), which has been, until now, in comparative obscurity. It is possessed of a faint and pleasant odor which has no effect on the aroma of essential oils and can be used in extracting them from their plants or flowers. Perfumes can be diluted, without harming their quality, and when a small amount of the articles is used in soap the solvent powers are increased greatly.

It is rumored in the trade that not a few foreign aromatic chemical producers are considering sites in this country on which to establish factories. American trade in the articles, importation of which is made impossible by the tariff, probably is large enough to pay foreign concerns to manufacture here and avoid the duty.

Chaulmoogra oil is now being used in the treatment of tuberculous laryngitis. While the oil does not effect a cure rapidly it helps substantially in healing diseased lesions on the throat's sound producing organs. The principal use for the oil at present is in the treatment of leprosy.

[NOVEMBER 1, 1922]

URUGUAY TO PUT MEDICINAL IMPORTS UNDER MUCH STRICTER REGULATIONS

**Sale of Preparations Not Conforming to Proposed Law
Will Be Prohibited—Advertising To Be Censored—
Certificate of Standing of Manufacturer Required**

(*Special to DRUG & CHEMICAL MARKETS*)

Washington, D. C., Nov. 1.—A bill is now pending in the Uruguayan Congress to control advertisements of medicines, and it is probable that it will soon be passed, according to advices received by the Department of Commerce from the American Consul at Montevideo. The consul in his report to the Department says in part:

"The Medical Association of Uruguay (Sindicato Medico del Uruguay) has just presented the following conclusions on the project, which will no doubt be incorporated in the law.

"1 A revision of all the permits authorized to date by the National Board of Health (Concejo Nacional de Higiene).

"2 Chemical analysis in all cases, and whenever the National Board of Health considers it necessary, clinical experiments for every new permit.

"3 Specifications in all labels of the chemical composition of the medicine or the biological nature of its components.

"4 Prohibition of sale, importation and propaganda of every medicine or specialty which has not complied with the foregoing conditions.

"5 Prohibition of putting (establecer) in notices, prospectus or labels the therapeutic indications of the product.

"6 Refusal of sale permit for every product which contains substances inadequate as an active therapeutic and the prohibition of advertisements destined to attribute to it curative properties.

"7 The periodic revision of all permits for importation, sale and advertisement.

"8 Frequent inspection of the national laboratories and factories of medical products. Official certificate, issued by competent foreign authority, vised by national consular or diplomatic agents, of the importance, seriousness and organization of the foreign factories which propose to introduce their products into the country.

"9 Every medicine will be considered as fraudulent which does not bear the place of its true origin.

"10 We consider it necessary that there pass through the National Board of Health for its previous control every advertisement, publication or notice which has relation to consulting rooms, laboratories, institutes, sanatoriums, hospitals for convalescents or sick people, medicine and treatment; in a word, everything which has reference to clinical or therapeutical diagnosis."

J. A. Van Brunt & Co., New York chemical house, received an adverse decision in its case against the Guaranty Trust Co. for the recovery of a loss sustained when the defendant failed to promptly collect a draft for money due the firm from a South American customer. Justice Tierney, of the Supreme Court, ruled that since the goods were billed to Martin Bros., instead of the firm name of Martin & Martin, an error committed by the plaintiff, that the banking house could not be held responsible for not collecting the money at once. The loss was caused by the liquidation of the debtor before the account was closed.

Christian B. Zabriski, president of the Pacific Coast Borax Co., whose home is in New York, is visiting the headquarters at San Francisco.

PRICE FLUCTUATIONS IN 30 YEARS

A bulletin of wholesale prices covering the period 1890 to 1920, issued by the U. S. Bureau of Labor Statistics, says that in the group of chemicals and drugs prices did not reach their maximum until September, 1920, when they were 122 per cent above the pre-war level of 1913. The miscellaneous group, including cottonseed meal and oil, millfeed, lubricating oils, etc., showed a gradual price increase to June, 1920, with a height of 147 per cent above 1913. Chemicals and drugs decreased 15 per cent from September to December, whereas they had increased 17 per cent in 1920, compared to 1919. Fourteen of the eighteen drugs and chemicals covered showed such increase, and only four showed a decrease.

Adopting an estimated value of 100 in 1913 as the base, the labor bulletin says that the index number for chemicals and drugs increased from 90 in 1890 to 221 in 1918, dropped to 179 in 1919 and rose again to 210 in 1920. The drug and chemical price curve showed a slight variation up to 1914, says the bulletin, but clearly exhibits the early influences of war on the prices of these commodities. In 1915 prices in this group had increased 14 per cent over the average for 1913, while in no other group had the increase been more than 5 per cent. From 1915 to 1918 prices continued to advance sharply, but with the termination of hostilities in the latter year a decline took place, followed by a reaction in 1920.

While the general level of wholesale prices of all commodities for September was 1½ per cent lower than that of August, according to the Department of Labor, chemicals and drugs showed an increase of 1½ per cent in average price in that period, while metals and metal products showed an increase of 6½ per cent.

TRANSATLANTIC PLANT TO BE SOLD

Judge Charles F. Lynch, of the U. S. District Court of Northern New Jersey, entered an order last week directing the receivers of the Transatlantic Chemical Corp. of Linden, N. J., to dispose of the plant and equipment of the company at public auction on Friday, Nov. 24. Edmund B. Clary and Clark McK. Whitemore were appointed receivers in equity on Sept. 10, 1921, and were authorized to complete the installation of certain machinery and operate the plant, which had been shut down for some months owing to an explosion.

The receivers were able to operate the plant profitably for a short period, but conditions in the trade rapidly grew worse, and in June the receivers were compelled to cease operations.

The company was organized in 1916 and for a time was very successful. The products consisted of ortho nitro toloul, para nitro toloul, ortho toluidine, para toluidine and mixed toluidine, which were used principally by dyestuff companies as raw materials in making the better grade of dyes. The receivers state that the condition in the dyestuff industry is such that the plant cannot be run economically to make these products solely, and that they must be made in conjunction with other products or the plant diverted to other uses.

Chemical engineers have advised the receivers that part of the equipment could be used for the manufacture of vegetable oils, textile oils, essential oils, disinfectants, soap, paints or varnishes and miscellaneous coal-tar, pharmaceutical and proprietary preparations.

The property comprises two acres of ground and is improved with four isolated brick buildings.

Chemical Foundation Denies Conspiracy

Answer Filed to Government Suit To Recover German Patents, Seized During the War, Points Out That Every Detail Was Disclosed and Explained to President Wilson—Report of Alien Property Custodian on Chemical Foundation's Plans Sent to Congress—No Profit for Individuals—Licenses Issued to All American Citizens, Qualified To Make Use of Patents, at Equal Rates, Similar Terms, and Without Discrimination—Necessity for Seizing German Property—Dismissal of Suit Requested

The Chemical Foundation filed its answer to the suit of the Government in Wilmington, Del., on Oct. 27. The answer is a comprehensive and emphatic denial of the Government's charges. It denies that the Chemical Foundation participated in any conspiracy or monopoly or suppressed any information from the President or his representative, Assistant Secretary of State Frank L. Polk, or paid an inadequate consideration for the patents, or did any act in bad faith or unlawfully. The answer points out that before any patents were sold to the Chemical Foundation every material fact bearing upon the creation of the Chemical Foundation, its objects, its work and its doings was discussed in the official report made to the President by A. Mitchell Palmer as Alien Property Custodian on Feb. 22, 1919, and transmitted by the President to Congress. An extract from this report is annexed to the answer as an exhibit. From this report it appears that the whole plan concerning the Chemical Foundation and its taking over of the German patents was disclosed in detail. It is claimed in the answer, in addition, that not only were the President and Polk and Congress and the country generally advised of the plans which gave rise to the Chemical Foundation and the taking over by it of the German patents, but that Palmer as Alien Property Custodian also explained the situation personally to the President and to his representative Frank L. Polk, and that after this report and explanation, they made the orders authorizing and approving the sales, which the present administration now challenges and seeks to nullify.

The answer points out that the taking over of the German patents was necessary to the proper prosecution of the war against Germany, for the common defense in case of renewal of hostilities or future war, and for the emancipation of the American chemical industry from German control and domination. The answer narrates in detail how Germany had succeeded by means of patents and otherwise in obtaining complete control over the organic chemical industry of the United States. That meant that before the recent war Germany not only controlled the supply of dyes in the United States, but also the materials out of which poison gas, high explosives and important medicines, were entirely in the hands of the Germans. The answer insists that in that situation the ability of the United States to manufacture high explosives and to defend itself according to the means and methods of modern warfare, were at the mercy of Germany; that the ability of the United States to supply its citizens with important medicines was likewise at the mercy of Germany, and that many of its most important businesses were equally at the mercy of Germany. The report to the Alien Property Custodian, which was given to the President and which is annexed to the answer, shows how it was necessary to break this control of

Germany over the chemical industry of the United States, if the United States was to have the power adequately to defend itself and protect its citizens.

The President approved the policy of Americanizing the basic industries of the United States in order to overcome the German domination of those industries, the answer points out. To that end the Chemical Foundation was formed, after conference with the President and his representative Frank L. Polk, and with their approval, and after similar conference and approval the patents in suit were transferred to the Chemical Foundation in order that it might hold and administer them in the interest of America and secure to the United States the permanent freedom of the organic chemical industry from German or other hostile foreign domination. The answer says that on the President's return to this country, the orders made by Polk were brought to his attention and that the matter was again considered by him and that he thereupon made an order duly ratifying in all respects what had been done by Polk and the Alien Property Custodian.

The answer shows that the Chemical Foundation is not a private venture; that it has made and can make no profits for private persons; and that, on the contrary, it has expended thousands of dollars of its own capital. Under its charter and under its agreement with the Alien Property Custodian, the Chemical Foundation is required to and has and does license all American citizens who are qualified without discrimination and at equal rates and upon like terms.

The Chemical Foundation is also the means which was adopted to enable the United States to avoid having to pay heavy damages for patent infringements to Germans who had taken out patents of the United States, not in order to help American science and industry, but to throttle it. That was accomplished by having the patents sold to the Foundation and a release and license given by the Foundation to the Government. The answer concludes by praying that the Government's complaint be dismissed.

CHEMICAL LECTURES FOR SALESMEN

Dr. F. E. Breithut and associates of the College of the City of New York have prepared a syllabus of the course of ten lecture-discussions on "Chemistry for Chemical Salesmen," to be given under the auspices of the College of the City of New York and the Salesmen's Association of the American Chemical Industry. The lecture-discussions will take place on Friday evenings at eight o'clock. The subjects and dates follow:

- How a Chemist Works, Jan. 5.
- Gases, Jan. 12.
- Liquids, Jan. 19.
- Solids, Jan. 26.
- Solutions, Feb. 2.
- Acids and Alkalies, Feb. 9.
- Metals and Their Salts, Feb. 16.
- Carbon and Its Compounds, Feb. 23.
- The Language of Chemistry, March 2.
- Economic Chemistry, March 9.

The fee for the course is \$10 and the class is to be limited to fifty in number.

T. J. Lynch, of the Lederle Antitoxin Laboratories, New York, is visiting the Pacific Coast.

[NOVEMBER 1, 1922]

EXPORTERS TOLD TARIFF PROBLEMS ARE TOO TECHNICAL FOR CONGRESS

Ogden L. Mills Says the Legislative Body Should Determine the Policy Only, and Leave Rate Making to Experts—Senator Calder Says Tariff Will Be Taken Out of Politics in a Few Years

The American Manufacturers' Export Association devoted a day to discussion of the tariff at the convention at the Waldorf-Astoria. Attention was called to the flexible or elastic provisions in the new tariff bill by W. W. Nichols, of the Allis-Chalmers Manufacturing Co., who presided as chairman of the meeting. Other speakers were Senator William M. Calder, Congressman Ogden L. Mills, Vice-Chairman W. S. Culbertson of the Tariff Commission, and Andrew C. Pearson, treasurer of the United Publishers' Corporation.

Mr. Culbertson went into some detail to explain the reorganization of the Tariff Commission and the method of procedure in making investigations.

Congressman Mills asserted that the taking of the tariff out of politics would be a boon to individual members of the House. "In view of the difficulty of finding out all the facts in connection with all the commodities covered in a tariff bill," he said, "the Congressman finally becomes a partisan representative of his own home industries, which does not give a scientific tariff, but merely a compromise on rates. The legislative body should determine the general policy and leave the rate making to experts."

Senator Calder supported Mr. Mills in his views on the tariff and said that within a few years the tariff will be taken out of politics completely. He also intimated that a change in our internal revenue laws will be tackled at the next meeting of Congress. "Personally," he added, "I believe that incomes of \$10,000 and under should be exempt from tax, that the maximum tax should not be above 35 per cent, and that the income tax should be supplemented by a small sales tax—say, one-half of 1 per cent."

Mr. Pearson made a plea for the co-operation of business men with the Tariff Commission in the new work thrust upon it.

After the close of the session the association's resolutions committee drafted resolutions recommended to the board of directors as the sense of the convention. These resolutions approved President Harding's policy on the merchant marine and pledged action along the lines advocated by the President, extended appreciation to the Bureau of Foreign and Domestic Commerce, and recommended that the Chamber of Commerce of the United States call an international conference of business men to determine upon a policy with regard to the international war debts.

The American Metals Co. has declared quarterly dividends of 75c a share on the common and of \$1.75 a share on the preferred. Both dividends are payable Dec. 1, the common to holders of record Nov. 20 and the preferred to holders of record Nov. 18.

Although there is a good demand for phosphates, scarcity of cars prevents the shipment from Mt. Pleasant, Tenn., of any large amounts. Two plants, Hoover & Mason and Federal Chemical Co., are closed down. Between 400 and 500 carlots are being shipped monthly.

Dr. Charles H. Herty, president of the Synthetic Organic Chemical Manufacturers' Association, returned last week from a hunting trip in Northern Michigan.

Edward von Berlo, sales manager of Wilkes-Martin-Wilkes Co., New York, returned from Europe, last week.

Business Briefs

The Durex Chemical Corp. has obtained a judgment for \$1,780.63 against Harry McLoughlin.

The Pharmaceutical Supply Co., Inc., has obtained a judgment for \$148.22 against Bernard Alexrod.

The city of New York has obtained a judgment for \$134.63 against the British-American Trading Corp.

Herr Hummel, State President of the Republic of Baden, has resigned to enter the management of the Badisch Anilin und Sodaefabrik of Ludwigshafen.

The listing of 15,000 additional shares of common stock, no par value, of the Air Reduction Co., has been approved by the Board of Governors of the New York Stock Exchange.

J. S. Brodhead, export manager of Colgate & Co., New York, was a business visitor at San Francisco in October, inspecting the branch maintained there from which the Pacific Coast trade is served.

John B. Brunner has sold the business owned by him at Fourth and Kentucky streets, San Francisco, and operated under the name of the Peroxide Manufacturing Company, to William F. Herb, the transfer taking place Oct. 20.

The report of the Corn Products Refining Co. for the nine months ended Sept. 30, shows a balance of \$6,552,395 available for the capital stock, which, after allowing for preferred dividends, was equal to \$10.54 a share earned on the \$49,784,000 common stock outstanding. In the same period last year the company reported \$7.54 a share earned on the common stock.

C. P. Van Schaack, member of the Chicago Drug and Chemical Association, has suggested a method for increasing the membership of the Association which has brought good results. Mr. Van Schaack sends to the chairman of the Membership Committee the names of firms who are doing business with the drug trade, and who are therefore eligible for membership in the club. This has given a mailing list, which secured eighteen new members in a week. Frank A. Blair 440 South Dearborn street, Chicago, is chairman of the committee.

GAS CONSUMPTION GREATER IN 1921

Sales of manufactured gas in 1921 set a new high record, a total of 326,000,000,000 cubic feet being consumed, according to the annual survey of the gas industry of the United States just completed by the American Gas Association. This is an increase of 7,000,000,000 cubic feet over 1920 and 20,000,000,000 cubic feet over 1919. An analysis of the gas consumption statistics discloses that the per capita increase for the ten year period, 1901 to 1911 was 30 per cent while for the period from 1911 to 1921 it was 80 per cent showing that the American people during the last ten years consumed nearly three times as much gas per capita as they did during the preceding decade.

Increased use of gas for industrial purposes and for domestic purposes other than illumination in homes is responsible for the rapid growth of the industry. The survey shows that 21.62 per cent of the gas used in the country last year was for industrial purposes, about 1,200 different uses being recorded.

Business Good, But Car Shortage is Acute

Inquiries by the Merchants Association of New York concerning business conditions were answered by members in the chemical and drug trade as follows:

"A. C. Stallman, of Arthur Stallman and Co., importers of drugs and chemicals: "As to the prospects of business in the immediate future, I can only say, from personal experience the prospects are very good. I personally am kept busy from the time I get here in the morning until I leave in the evening. I converse with at least forty people daily, perhaps more right in this office, and the consensus of opinion is that prospects for business look very good at the present time."

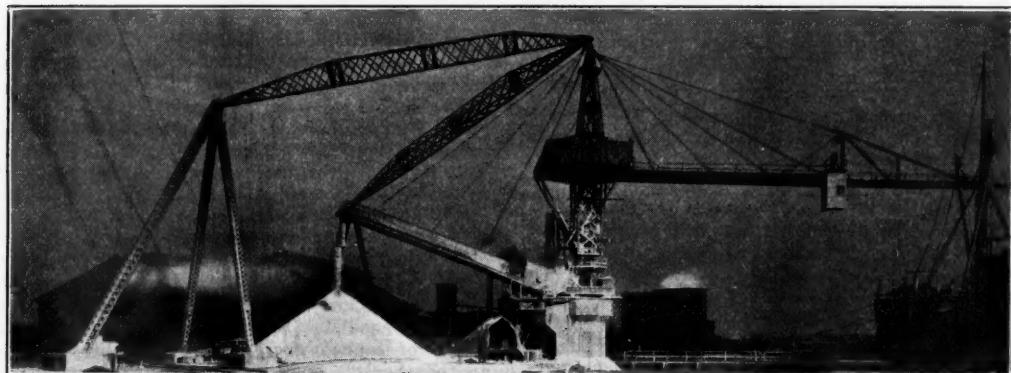
G. A. Clarke, eastern manager of the United Chemical and Organic Products Co.: "I am very optimistic of a decided return to normal conditions in the immediate near future. As most of the serious labor troubles have now been adjusted, resulting in many cases in an increase in wages, this should again enable the buying power of the public to start reaching a somewhat near normal basis."

Philip Valk, exporter and importer: "Business is

undoubtedly on the upgrade. It does not move up as fast as some of us would like to see it, still the improvement is a healthy one and much preferable to a boom which suddenly springs, and next, according to the laws of nature, comes down with a crash. Let us make true comparisons. Our country is in so much better shape than any I have visited as to make one feel very happy to be an American. Our business is not bad, conditions are improving steadily and the future looks bright. Prosperity is in sight and good times are bound to come."

The Federal Reserve Board has the following to say in its summary of general business and financial conditions throughout the various reserve districts during the month of October: "Difficulties in handling the increased freight traffic, due to car shortage, have become an important factor in the current industrial situation. The total number of cars loaded increased during September chiefly because of heavy loadings of coal and live stock, and during the last week of the month the car loadings were greater than for any week since October, 1920."

Handling Chemicals by the Boat Load



OCLEAN-GOING vessels bringing sulfur for the manufacture of sulfuric acid; bauxite used in making sulfate of aluminum; nitrate of soda for making nitric acid; and salt needed in producing muriatic acid and salt cake, arriving in Boston harbor, with cargoes consigned to the Merrimac Chemical Co., no longer unload at the piers on the Boston waterfront, but are convoyed by tugs up the Mystic River to a dredged basin and dock where the company has solved the question of handling chemicals by the boat load by erecting an unloading tower of huge proportions, electrically operated. The tower, which is located at the company's plant at Everett, has been in successful operation since October, 1921, and has assisted materially in reducing the cost of handling incoming raw materials.

The basin where vessels dock has a uniform depth of twenty feet below mean low water, while the channel up the river has been dredged to sixteen feet below mean low water, so that vessels up to 375 feet in

length and twenty-three feet draft can safely be accommodated.

The vessels are unloaded by means of an electricaly operated two-cubic-yard grab-bucket carried by the main boom which swings out over the hatches. This boom is suspended from a revolving mast pivoted on a concrete foundation and supported at its upper end by two stiff legs. The mast carries the motor house in which are located the motors and control apparatus for hoisting the bucket and trolleying it in to the receiving hopper just beneath. From the hopper the material falls by gravity to a belt conveyor for distribution to storage pile, cars or trucks as desired.

The principal material handled is sulfur, which is stored directly at the base of the tower. From the storage pile it is distributed, mostly by motor truck, to the various burner buildings of the Everett plant and also to the company's plant at Woburn, Mass., for the manufacture of sulfuric acid.

[NOVEMBER 1, 1922]

HOW TO APPLY FOR TARIFF CHANGES AND CHARACTER OF EVIDENCE REQUIRED

Commission Will Then Decide Whether Reasons Given Are Sufficient to Warrant an Investigation—Testimony Must Be Verified from Books and Records of Applicants

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Nov. 1.—William S. Culbertson, vice chairman of the Tariff Commission, has issued a statement in which he tells of the reorganization of the commission under the new tariff law as well as the new rules of procedure which have been worked out. In this connection he says:

"The law provides that all investigations under Section 315 are to be made by the Tariff Commission, and that the President shall issue no proclamation changing rates or classification until after the Tariff Commission shall have investigated. The Commission has, as a result of these new responsibilities, completely reshaped its organization. Under the Commission there are now four broad divisions:

"The secretary handles the routine business of the Commission. To the legal division are referred questions of customs laws and procedure and any other legal question that may arise in the Commission's work. General investigations which the Commission may conduct under its general investigational powers will be supervised by the chief economist, and special investigations made necessary by the new powers vested in the President will be under the direction of the chief investigator.

"The Commission's organization under the direction of the chief economist and the chief investigator consists of a series of divisions each with a chief and other experts. These divisions are: chemicals, pottery and glass, metals, wood and paper, sugar, agriculture, textiles, leather, sundries, preferential tariffs and commercial treaties, and accounting. In addition, the Commission has provided for the establishment of a New York office and for the conduct of investigations in foreign countries.

"The work of the Commission's staff is co-ordinated with an Advisory Board which reports only to the Commission and is under its immediate direction. The chief investigator is chairman of this board. Its other members are the chief economist, a representative of the legal division, and the chief of the division of the Commission concerned in the subject matter under consideration at any given time; e.g., chemicals or textiles.

"Anyone can apply for an investigation. The application need not be in any special form, but it must be in writing and signed by or on behalf of the applicant. It must also recite the relief sought and the reasons therefor. Obviously, the mere filing of an application does not obligate us to proceed formally. We shall not order an investigation unless the application or a preliminary investigation discloses to our satisfaction that there are good and sufficient reasons for doing so under the law.

"We can order a formal investigation upon our own initiative as well as upon application and we are not confined to the issues presented in an application; we may broaden, narrow or modify the issues to be determined.

"When we finally decide to proceed formally with an investigation, we shall issue and publish a notice of its nature and scope. Any person who then can show to our satisfaction an interest in the subject matter

of the investigation may enter his appearance in person or by a representative. He will be notified of public hearings and afforded opportunity to offer such testimony as we may deem necessary for a full presentation of the facts. Our hearings will usually be open to the public. Evidence submitted will be subject to verification from the books and records of the parties in interest. In conjunction with hearings we shall conduct field investigations both in the United States and in foreign countries."

HERCULES POWDER PAYS 100% IN STOCK

Directors of the Hercules Powder Co. have declared a stock dividend of 100 per cent on the common capital stock of the company to stockholders of record Nov. 15. The dividend is to be in common stock of the company at par, delivered on Nov. 25.

The report of the company for the nine months ended Sept. 30, showed net earnings of \$1,522,044 after depreciation, interest and taxes, equivalent after preferred dividends to \$14.43 a share earned on the \$7,150,000 common stock. This compares with a net of \$427,687, or 23 cents a share, in the corresponding period of 1921.

At a special meeting of the stockholders of the Hercules Powder Co., at Wilmington, Del., Oct. 24, the proposition to increase the authorized preferred stock from \$10,000,000 to \$20,000,000 and the authorized common stock from \$10,000,000 to \$20,000,000 was approved. Ninety per cent of the stockholders voted in favor of the plan. The immediate purpose of the additional preferred stock is to retire the outstanding Aetna Explosives bonds.

EARNINGS OF AIR REDUCTION CO.

The income account of Air Reduction Company for the eight months ended Aug. 31, 1922, showed net profit of \$514,368, after charges and depreciation but before Federal taxes; gross income of \$4,244,441; operating expenses, \$2,976,112; operating income, \$1,268,329; reserve for depreciation and amortization, \$651,254; interest, \$96,922; other charges, \$5,785, and net income of \$514,368. Surplus after dividends of \$306,224 amounted to \$208,144. Profit and loss surplus was \$947,553.

For the quarter ended Sept. 30, the company reported net profits of \$181,312 after allowing for interest charges and depreciation but before Federal taxes. This was equal to \$1.18 a share earned on the 153,121 shares of capital stock of no par value outstanding. In the previous quarter the company reported profits equal to \$1.51 a share. In the corresponding period last year the profits equaled \$1.04 a share.

AMMONIA CO. IN BANKRUPTCY

The Committee of Creditors of the American Ammonia Co., Boston, announces that a petition in bankruptcy has been filed in the U. S. District Court for the purpose of reorganizing the company. Creditors are requested to co-operate by sending notice of their claims to one of the following named members of the committee: T. M. Ragan, American Credit Indemnity Co.; K. Knoring, New England Bottling Company; J. N. Cook, Champlain & Hobbs Box Co., Medford, Mass.

Marx & Rawolle have obtained a judgment of \$16,639.06 against Charles Dick, Akron, Ohio. The amount was owed the New York concern by the Lyraphone Co. of America, Newark, which recently went into hands of receivers. Mr. Dick had guaranteed the account of the bankrupt company with Marx & Rawolle.

QUOTATIONS ON CHEMICAL STOCKS

	Bid	Asked		Bid	Asked
Air Reduction	60½	63	Heyden Chem.	27½	3
*Allied Chem. & D.	80¾	81	Hoover Electro	55	65
*Allied Ch. & D., pf.	113	115	Hoover Electro, pf.	60	70
Am. Ag. Ch.	31	32½	*Int. Agricult.	8	10
*Am. Ag. Ch., pf.	62½	63½	*Int. Agricult., pf.	34	36
*Am. Chicle	7½	8	*Int. Nickel	15½	15½
*Am. Chicle, pf.	20	29	*Int. Nickel, pf.	75	85
*Am. Cot. Oil	24½	24½	*Int. Salt	85	110
*Am. Cot. Oil, pf.	51	55	*Mathieson Alk.	50	50½
*Am. Cyan.	15	20	Merck & Co., pf.	74½	77
*Am. Cyan., pf.	53	56	Merrimac	83	88
*Am. Druggist S.	6	6½	Mulford Co.	35	40
Am. Glue	40	45	Mutual Co.	150	..
Am. Glue, pf.	65	70	*National Lead	107½	109
*Am. Linseed	36	36½	*National Lead, pf.	112	114
*Am. Linseed, pf.	57½	59	N. J. Zinc	165	169
*Am. Malt	12	13	Niag. A., pf.	96	100
*Am. Zinc	17½	18½	Parke, Davis & Co., 103	104	..
*Amer. Zinc, pf.	52½	54	Penn. Salt	81½	82½
Atlas Powder	153	160	People's Gas. Chi.	94	96
Atlas Powd., pf.	90	94	Procter & Gamble	124	128
British Am. Chem.	1	..	Procter & Gam, pf.	102	106
By. Prod. Co.	57	65	Röllin Ch.	50	60
Carborundum	135	135½	Rol. Ch., pf.	80	90
Carborundum, pf.	115½	116	Royal Bak. Po.	117	125
Casein Co.	30	45	Royal Bak. Po., pf.	97	99
Celluloid Co.	92	98	Sherwin-Williams	29	29½
Celluloid Co., pf.	106	106½	Sherwin-W., pf.	93	97
Ches. Mfg.	215	230	Stand. Ch.	90	100
Ches. Mfg., pf.	110	115	Swan & Finch	30	32
Com'l Solv. A.	49	49½	*Tenn. C. & Chem.	9	9½
Do B	44	45	*Tex. Gulf. Sul.	61	61½
*Corn Products	127½	127½	Union Carbide	63½	..
*Corn Products, pf.	120	121½	Union Sulphur	..	..
*Davison Chem.	34½	34½	*Un. Drug	78	81
Dow Chem.	200	..	*Un. Drug, 1st pf.	48	49
Dow Ch., pf.	103	..	*Un. Dyewood	42	..
Du Pont de Nem.	152	155	*Un. Dyewood, pf.	..	94½
*Du P't de Nem. Db.	83½	87	Un. Gas, Imp.	51	51½
Eastman Kodak	85	85½	Un. Gas, Imp., pf.	55½	56
Eastman Kodak, pf.	108	..	U. S. Gypsum	67	67½
Freeport, Tex. Sul.	23½	23½	*U. S. Indus. Al.	65	65½
Freept. Tex. Sul., pf.	93	..	*U. S. Indus. Al., pf.	99½	101
*Grasselli	128	122	*Va.-Car. Ch.	26	27
*Grasselli, pf.	100	101½	*Va.-Car. Ch., pf.	67	67½
Hercules Powder	200	206	V. Vivaudou	12½	..
Hercules Powd., pf.	103	105			

*Listed on New York Stock Exchange

DIAMOND MATCH INCREASES CAPITAL

Stockholders of the Diamond Match Co., at a special meeting held in Chicago, Oct. 26, voted to increase the authorized capital stock from \$18,000,000 to \$25,000,000. The present amount issued and outstanding is \$16,965,100, so that the increase voted makes available a total of \$8,034,900 for issue at such times and in such amounts as the directors may deem advisable.

W. A. Fairburn, president of the company, has already stated that the company may on Nov. 1, 1923, have cash available for the retirement of a part of the company's outstanding debentures, and with the increase of the capital stock now authorized, the company will be in a position to retire the balance of the debentures by the issuance of the necessary amount of capital stock.

"The company will, also, in such case, be able to issue additional stock from time to time as the operations of the company may require and as may be advantageous to stockholders," President Fairburn said.

A petition in bankruptcy was filed Oct. 26 against the Haines Shellac Works, Inc., of 2534 East 177th street, by these creditors: Toby Katz, \$306; Abraham Marks, \$265; Gutenberg Printing Co., Inc., \$88. Judge Learned Hand appointed Bertha Rembaugh receiver under \$2,000 bond. It is stated the liabilities are about \$22,000 and assets about \$4,000.

The Texas Gulf Sulphur Co. reports net earnings for the third quarter of \$1,075,468, compared with \$871,773 in the second quarter. Earnings for the first nine months of the year total \$2,752,336 and more than cover the \$4.00 annual dividend on the 635,000 shares of stock. Total surplus, including reserve for depletion on September 30, was \$6,456,670.

SMELTING COMPANY SELLS BONDS

Kuhn, Loeb & Co. have purchased \$7,500,000 American Smelting & Refining Co. first mortgage 5 per cent gold bonds series "A" due April 1, 1947. The purpose of this issue is to reimburse the company for expenditures heretofore made for additions, betterments and improvements to the property pledged under the first mortgage. The first mortgage bonds series "A" are a direct obligation of the American Smelting & Refining Co. and constitute its sole funded debt. They are redeemable in whole or in part at 100 per cent and accrued interest on 30 days' notice on any interest date on and after Oct. 1, 1930.

The earnings of the company and its subsidiaries for the years 1912 to 1921, inclusive, applicable to interest on the company's bonds, and after setting up all reserves and deductions, have averaged \$11,050,194 per annum. Even in the year 1921, which was a particularly unfavorable one in the entire industry, net earnings applicable to bond interest were \$3,264,341, while the interest on the outstanding first mortgage bonds, including the \$7,500,000 to be presently issued, amounts to only \$2,123,885 per annum. The net earnings for the year 1922 will be materially better and for the first eight months amount to \$1,141,900.

It is understood that the bonds are to be offered for subscription at 94 per cent and accrued interest to date of delivery, at which price the bonds will yield about 5.45 per cent on the investment if held to maturity.

MINER-EDGAR BOND OFFERING

In a statement offering the first mortgage 20-year 7 per cent sinking fund convertible gold bonds of the Miner-Edgar Co., Ralph W. Voorhees & Co., say: "The company is the largest distributor of American paper clay to the book, news and wall paper trades in the United States. It is the largest distributor of denatured alcohol in the New York territory and is a leading manufacturer of acetates, formaldehyde and other basic chemicals.

The total earnings applicable to bond interest of all the companies now consolidated aggregated \$1,587,892 during the last seven years. As the average life of all companies during this period was four years, the actual average earnings were at the rate of \$396,973 per annum, or nearly four times the annual interest requirements of this issue. For the first 9 months of 1922 earnings applicable to bond interest were \$306,614 or at an annual rate of nearly four times interest requirements.

Notice is given by the Armstrong Cork Co. that pursuant to the provisions of the trust indenture made Jan. 1, 1921, by that company to the Bankers' Trust Co. as trustees, securing \$6,000,000 of its ten-year 7 per cent gold notes, the company has elected to redeem all of the notes by paying on Jan. 1, 1923, the unpaid accrued interest and the principal together with a premium of 2½ per cent of such principal. Payment is to be made at the office of the Bankers' Trust Co.

New Incorporations

Harlem Chemical Corp., Wilmington, \$500,000. Corporation Registry Co.
 New Era Chemical Mfg. Co., Baltimore, Md., \$100,000.
 Lavex Chemical Co., Kansas City, Mo., \$50,000.
 Remington Chemical Corp., New York, \$10,000. F. W. Bein, F. Mendlesohn, L. Arnoff; attorney, J. H. Ide, 1400 Broadway.
 Puritan Laboratory, Inc., 128 Market st., Newark, N. J., \$125,000. To conduct wholesale drug business. Corporation Trust Co., 37 Wall st., New York.
 West Coast Wholesale Drug Co., Seattle, Wash., \$100,000.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, See Chemicals, page 1138

CAUSTIC SODA EXPORT PRICES HIGHER

Sulfate of Alumina Scarce Owing To Delay in Shipments of Bauxite—Heavy Acids in Better Demand—Copperas Very Scarce—Arsenic Situation Still Tight

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Caustic Soda, f.a.s., 5c 100 lbs.

Declined

Barium Chloride, \$5.00 ton

Potassium Prussiate, yel., $\frac{1}{2}$ c lb.

Sodium Prussiate, Yel., $\frac{1}{2}$ c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial....lb.	\$11 1/2	\$11	\$10 1/2	\$10	\$19 1/4	\$07
Sulfuric Acid, 66 deg..ton	14.00	14.00	14.00	17.00	55.00	20.00
Bleaching Powder, Works	100 lbs.	2.00	2.00	2.25	9.50	1.50
Copper Sulfate ....100 lbs.	5.90	5.90	5.90	5.00	20.00	4.50
Potash, Caustic	lb.	.06 1/2	.06 1/2	.06	.06	.08
Saltpetre, gran. ....lb.	.07 1/2	.07 1/2	.06 1/2	.07 1/4	.35 1/2	.04 1/2
Soda Ash, 58 p.c. ....100 lbs.	1.80	1.80	1.80	2.16	3.50	.60
Caustic Soda, 76 p.c. ....100 lbs.	3.55	3.50	3.50	4.00	9.50	1.42
Potassium Bichromate ....lb.	.10	.10	.10 1/2	.11	.65	.03 1/2
Average	3.067	3.048	3.042	3.428	11.06	3.14

Demand for heavy chemicals continues along steady lines though the market has been less active during the week. Supplies seem to be more plentiful in many items and the tight situation of a few weeks ago appears to be easier. There is still a great scarcity of arsenic, and the market remains strong. Bleaching powder is easier. Yellow prussiates of soda and potash have been declining in price due to smaller demand. Bichromate prices for the future are held at recent levels. Export prices for caustic soda are slightly higher for inside brands. Outside brands are unchanged. Barium compounds are in less demand and the prices are weakening. Difficulties in securing shipments of bauxite are hampering manufacturers of sulfate of alumina, and supplies are scarce. Heavy acids are in better demand which reflects good business con-

ditions. Copperas supplies are still scarce and producers are unable to meet the demand. Soda ash and caustic soda prices remain unchanged for next year's contracts and consumers are showing interest, as conditions seem to point to higher prices for the coming year.

Acid, Acetic—Buying is reported steady at the new schedule of prices. Prices are quoted at a range as to maker. 28 per cent named at \$2.92 1/2@\$3.00, in carlots of barrels at works. 56 per cent at \$5.85@\$6.00. 70 per cent at \$6.50@\$6.60. 80 per cent at \$8.06@\$8.14. Glacial quoted at \$11.16@\$13.50.

Acid, Muriatic—Demand has been improving and supplies are not as plentiful as a few weeks ago. 20 degree acid in carlots of carboys named at \$1.10@\$1.25. In tank cars at 90c@\$1.10. 22 degree quoted at \$1.50 @\$1.75 in carlots at works. 18 degree at \$1.00@\$1.10 in carboys and 90c@\$1.00 in tanks.

Acid, Oxalic—Makers are naming 14c@15c in barrels at works. Imported prices are on a par with domestic and are quoting 14c@15c. Demand is active.

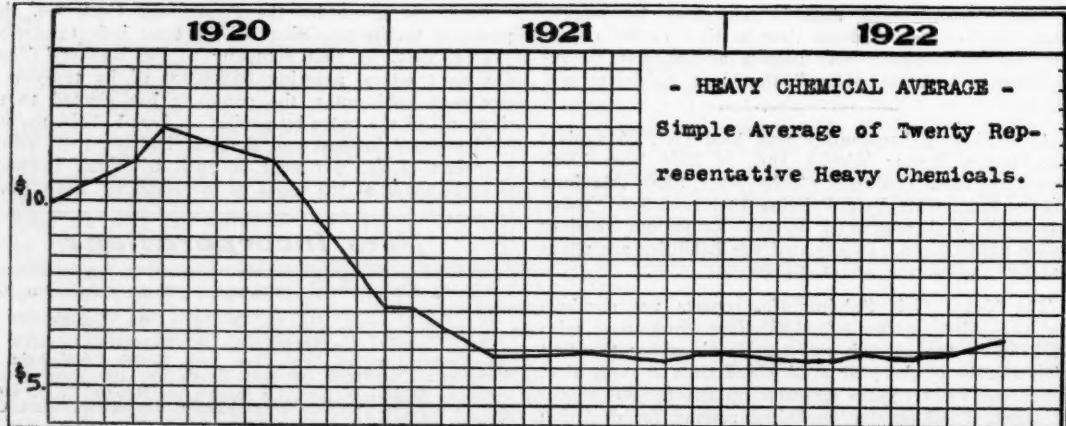
Acid, Nitric—Business being carried in routine way. Carlots of 36 deg. at works named at \$4.50@\$5.25. 38 deg. named at \$5.00@\$5.65. 40 deg. at \$6.50@\$7.15.

Acid, Sulfuric—Large demand reported. Makers are quoting 66 deg. acid at range from \$14.00@\$15.00 in tanks at works. 60 deg. quoted at \$9.00@\$11.00.

Alums—Supplies are scarce and the demand continues strong. Lump ammonia at works quoted at \$3.50 per 100 pounds. Ground named at \$3.50@\$3.65. Powdered at \$3.90. Potash lump at \$4.25@\$4.50 as to quantity at works. Imported at \$3.50.

Ammonium Sulfate—Market remains steady with supplies becoming more plentiful. Bulk at works named at \$3.20 per 100 pounds. In double bags f. a. s. New York quoted at \$3.50.

Ammonium Chloride—Business improving and the market is steady. Imported white quoted at 6 1/2c @6 3/4c. Domestic prices at 7 1/4c@7 3/4c. Gray named



at $7\frac{1}{2}$ c@ $7\frac{1}{2}$ c for domestic and imported at $8c@8\frac{1}{2}c$. Lump at 15c.

Arsenic—Little change in the market which continues strong on scarcity of supplies. Spot quotation generally named at $10\frac{1}{2}c@11c$. Shipment prices at $10\frac{1}{2}c$.

Barium Chloride—Demand has fallen off and prices are easier. Domestic producers named at $\$90.00@\100.00 . Imported quoted lower at $\$90.00@\95.00 a ton.

Bleaching Powder—Prices remain steady at $\$2.00$ per 100 pounds at works. Makers are sold for the balance of the year and some are quoting same prices for early part of next year. Supplies somewhat easier.

Calcium Acetate—New quotations firm at $\$3.00$ per 100 pounds at works.

Copperas—Makers are still short of stocks and demand for this commodity is gaining. Bulk in carlots at works quoted at $\$18.00@\21.00 per ton. In bags at $\$23$ and in barrels at $\$25$.

Copper Sulfate—Demand is reported improving though makers have no trouble in supplying the demand at this time of the year. Carlots of barrels named at $\$5.90$. In smaller quantities at $\$6.25@\6.50 .

Lead Arsenate—Somewhat early for prices and most makers are waiting until the first of the year. One producer quotes $15c@26c$. The advancing price of arsenic makes the situation uncertain.

Potash, Caustic—Market has been quiet with buying confined to moderate quantities. Imported 88-92 per cent named at $6\frac{1}{4}c@6\frac{3}{4}c$. Domestic quoted at $8c@9c$ as to quantity.

Potassium Bicarbonate—Quoted at $8c@9c$ for crystals as to quantity.

Potassium Prussiate—Demand less active and yellow is quoted slightly lower at $22\frac{1}{2}c@23c$. Red is also easier at $85c@90c$ as to quantity.

Soda Ash—Consumers are showing interest and spot prices remain firm at $\$1.75@\1.80 per 100 pounds. Makers are taking contracts at old figures. 48 per cent in carlots at works in bags at $\$1.20$ per 100 pounds. Ex-warehouse prices at $\$2.01$ for 58 per cent light. Dense at $\$2.07$.

Soda, Caustic—Association quoting higher prices for export trade at $\$3.55@\3.60 . Ex-warehouse prices New York at $\$3.70@\3.75 . Contracts yet unchanged for next year by makers, at $\$2.50$ per 100 pounds for 60 per cent at works.

Sodium Nitrate—November prices are quoted at $\$2.45$. Demand continues strong and stocks in local market are low.

Sodium Prussiate—Market is growing easier and prices are quoted $\frac{1}{2}c$ lower. Trading has fallen off the past few weeks.

The Federal Trade Commission has dismissed complaints, alleging certain methods of unfair competition, against Louis Rosenthal, doing business as the United Chemical & Color Co., and the Heller & Merz Co., New York. The complaints charged that the companies had given gratuities to employees of customers.

There was only one bidder in the sale of 21,277 pounds of albumen, by sealed bids, opened Oct. 23, at the office of the Chief of the Air Service, Munitions Building, Washington, D. C. W. H. Gallon, Port Townsend, Washington, was the lone bidder.

The steamship Essequibo arrived last week from Chilian ports with 16,535 sacks of nitrate of soda.

Selwyn C. Edgar, president of the Edgar Zinc Co., St. Louis, died last week at 71 years of age.

BELGIUM'S SECURITY IS DYESTUFFS

Payments for orders placed by British manufacturers with the leading German aniline dyestuff makers will be indorsed over to the Bank of England, and payments for licenses from German chemical concerns held in England have also been pledged to protect the bank of England which has guaranteed to pay the new Treasury bills given to Belgium by Germany on account of Reparation payments. A block of 96,100,000 gold marks of these new Treasury bills was discounted recently by a group of leading Swiss banks, headed by the Swiss Bank Corporation of Basle, says a correspondent of the "New York Evening Post." The rate was $4\frac{1}{2}$ per cent, which is three times that now paid in Switzerland for first-class bankers' acceptances. The bills are drawn against the Reichsbank and are payable in six months at the Bank of England, but do not bear the signature of the latter. They are indorsed not only by the German Government and Reichsbank, but by the Belgian Royal Treasury.

In a sense, the arrangement is detrimental to the stability of the mark, since the Reichsbank will have to keep one printing press running night and day in behalf of the aniline trust. At the same time the currency scarcity in Germany makes further use of the scheme probable.

PERU INCREASES TARIFF ON SODAS

Under the proposed new tariff now before the Peruvian Congress, and which may become law by Jan. 1, heavy chemicals are subject to higher duties. The Government hopes to encourage domestic industries. The rates are expressed in Peruvian soles, one sole at present rates of exchange being equivalent to .0391 cents, though normally valued at .0486 cents. Commercial Attaché W. E. Dunn cables from Lima to the U. S. Department of Commerce that the proposed duty on pure caustic soda, gross weight, is 0.50 soles per kilo of 2,2046 pounds, and on adulterated caustic soda, gross weight 0.05 soles. The present duty is 0.02 soles per kilo.

Attention is called to the fact that in addition to the basic duties imports into Peru have been subject to certain surcharges, varying with the port of entry; at Callao the surtaxes amount to 19 per cent of the duty, at all other ports 18 per cent. It is presumed that these will continue under the new tariff.

Claims of importers for a reduction of 20 per cent of the rate imposed on certain coal tar colors under the tariff act of Sept. 8, 1916, were sustained in decisions rendered by the Board of United States General Appraisers. Instead of 5c per pound and 30 per cent ad valorem, the board finds that they should have been assessed at 4c per pound and 30 per cent ad valorem under Title V, sections 509 and 501 of the 1916 law.

Owing to the fact that the Textile Alliance, Inc., has not ordered any Reparation dyes since June, of this year, and is now merely liquidating its remaining stocks, Chas. H. Stone, who for the past year has had charge of the distribution of the Reparation dyes will finish his work with the Alliance at the end of October.

The will of Isaac Guggenheim, eldest son of Meyer Guggenheim, head of the Guggenheim Copper Smelting & Refining interests, disposes of an estate of \$25,000,000. The bulk of the property goes to the widow and three daughters. Mr. Guggenheim died October 11 in Southampton, England.

The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, see Chemicals, page 1138

FORMALDEHYDE MOVES UP AGAIN

Higher Manufacturing Costs and Scarcity Responsible
—Chloroform Higher—Quicksilver Easier—Mercurials, Iodides and Salicylates Firm—Market Steadier and Business Good

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced			Declined			Chloroform, 10c lb.		
Formaldehyde, $\frac{1}{2}$ c lb.									
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War			
Acetanilid	\$.50	\$.30	\$.30	\$.33	\$ 2.00	\$.20			
Acid Citric, Import.....	.50	.50	.52	.45	1.25	.45			
Caffeine Alkaloid	3.75	3.75	3.75	5.25	18.00	3.65			
Calomel, American	1.15	1.15	1.15	.82	3.43	.90			
Camphor, Jap., ref.....	.86	.86	.86	.91	3.55	.41			
Iodine, Resublimed	4.40	4.40	4.40	3.50	5.00	3.75			
Menthol	7.00	7.00	6.26	4.75	13.50	3.00			
Morphine Sulfate	5.35	5.35	5.35	4.80	12.80	4.50			
Potassium Bromide, Cryst. ....	.26	.26	.26	.19	4.30	.80			
Quinine Sulfate, Imp.....	.50	.50	.50	.68	.90	.25			
Sodium Salicylate .....	.42	.42	.39	.28	4.25	.27			
Strychnine Sulfate .....	.84	.84	.84	1.15	2.05	.50			
Average	2.11	2.11	2.06	1.94	5.92	1.56			

The confidence which has been lacking in this market for some months past has apparently been restored and business is improving steadily. Price cutting has been eliminated in most lines and various odd lots have been practically wiped out of the market. The result is that the situation is basically controlled by factors strong enough to keep values steady. A number of medicinal chemicals such as bismuth preparations, mercurials and iodides are strong and seem due for another series of advances. Formaldehyde is again higher in an active market. Alcohols are all occupying firm positions. Quicksilver is cheaper. Makers have announced an advance on chloroform. Imported bromides reported weaker.

Acetanilid—Makers continue at odds as to price, naming variously 30c@32c lb. for U. S. P. grade.

Acid Carbolic—Firm at last week's higher figures

and tending upward. Crude acid stocks practically bare on spot and prices are advancing steadily. U. S. P. goods on basis of 37c for 110 lb. tins and 46c for 1 lb bottles.

Acid Citric—Odd lots of imported grades going at from 50c to 51c as to quantity. Impossible to import at present shipment prices. American makers quote 50c on crystals and 51c on powder.

Acid Salicylic—Makers at 35c for U. S. P. and 32c@33c for technical. Small resale lots offered at 33c@35c lb. Prices firm and likely to advance again as phenol is going higher. Market active.

Acid Tartaric—Imported goods continue slightly under American product at 30c@31c lb. as to quantity. Domestic acid at 32c. Demand good and prices firm.

Alcohol—Wood alcohol stocks are small and in some cases higher prices are asked. On 95 per cent, 95c@97c is being quoted, and 97 per cent, 98c@\$1.00 is named as to holder. Acetone free is at \$1.10@\$1.15 with pure methyl at \$1.05@\$1.07. Consumers ordering in large amounts and prices are tending upward.

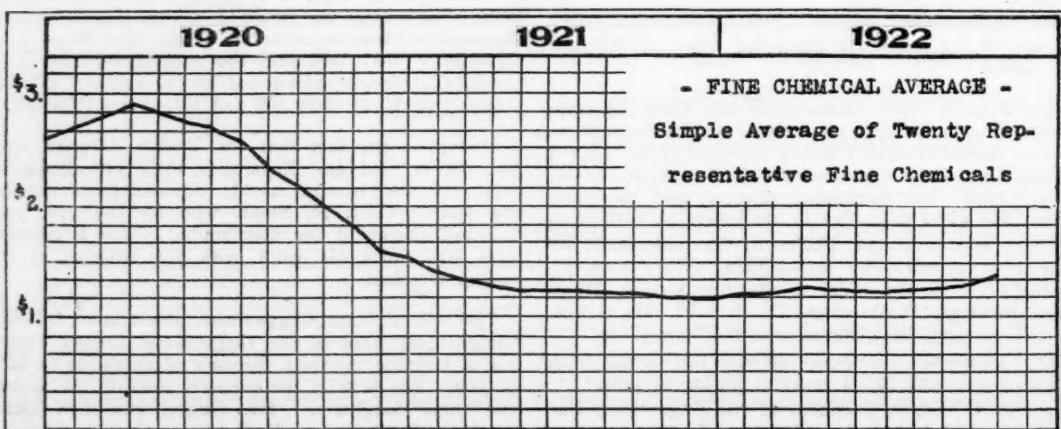
Bromides—Imported goods weak at 18c@20c for ammonium, 17c@20c for potash and 18c@20c for soda. Domestic goods at 25c@26c for soda, 26c@27c for potash and 33c for ammonium. In fair request.

Camphor—Spot 86c but 83c is quoted for nearby goods. Routine market. American material unchanged with bulk at 90c.

Chloroform—Makers have advanced to basis of 35c for U. S. P. and 32c@33c for technical. Higher manufacturing costs responsible.

Formaldehyde—Has again advanced as a heavy demand finds market rather short of stocks. Now at 13 $\frac{1}{4}$ c in carlots of drums at works. Less cars of bbls. at 13 $\frac{1}{4}$ c. Carboys at 14 $\frac{1}{4}$ c. Costs more to manufacture as coal and labor are higher.

Menthol—Speculators asking \$7.25 for cases as market is temporarily short of stocks due to shipping difficulties. Consumers evidently holding off for arrivals. Largest factor selling cases to regular trade at \$7.00.



Several sales, for arrival of nearby material, made. Less cases spot at \$7.25@\$7.50.

Mercury—Slipped off to \$71.00@\$72.00 per flask. Not likely to go much lower as duty is high. Demand has subsided and sales are routine.

Quinine—Spot grades at 50c oz. Japanese goods due within ten days offered in 1000 ounce lots at 48½c. Heavy demand for minor salts continues.

Santonin—First hands quote \$172.00@\$175.00 for whole and \$173.50@\$176.50 for powdered goods. One resale lot offered inside at \$171.00.

Salicylates—Trend is to higher levels as phenol stiffens on spot. Methyl offered at 45c@47c; soda at 42c@44c. Resale in small quantities at 44c and 41c, respectively.

Fine Chemical Notes

The "Squibb Message," October, 1922, has been mailed to the drug and chemical trade throughout the country. It contains news of the proposed Squibb week, Nov. 19-25, when retail druggists will feature the company's products.

British South African imports of glycerin during the first five months of this year amounted to about one-tenth of the quantity received during the same period last year. The figure for 1922 was 764,503 lbs. as compared with 7,064,274 lbs. from January to June, 1921.

If samples of patent medicines shipped to Palestine are marked "Free Sample," they will be admitted duty free, according to a recent ruling of Government authorities. A meeting will be held shortly to determine how much material will be allowed in, under this ruling.

The Sutton Chemical Co., Sutton, W. Va., manufacturing wood chemicals, has resumed operations after a shut down of many months. The plant is now running at top speed and the concern is reported to have orders which will keep it going at capacity for the next six months.

Ignorance is bliss. The Manchester (N. H.) Mirror of Oct. 11 blissfully states that since the tariff went into effect the price of camphor advanced 50 per cent. The price has, in reality, been in no way affected by the tariff. One year ago Japanese refined goods sold at 91c. The first of Sept., 1922, the price was 83c, and camphor is offered today, nearby, at 83c. From whence cometh the 50 per cent advance?

The Board of Governors of the United Medicine Manufacturers of America held a meeting at Detroit recently. Two new recommendations were considered and will be placed before the members of the organization at the next annual meeting. One provides for the incorporation of the body under the District of Columbia laws; the other suggests that the Board of Governors be elected instead of appointed by the president.

Merck's Report, issued this month, says of the medicinal chemical situation: "The past three months have been characterized by a fairly steady progress toward business recovery. Conditions, both here and in foreign countries, are still such, however, as to render conservatism advisable. The outstanding feature of the past few months has been the calmness with which the adverse conditions, resulting from industrial disturbances, have been regarded throughout the business world. No clearer evidence could be given of the underlying confidence in the business strength of the country, and of a near return to an era of prosperity."

EXPIRATION OF LIQUOR PERMIT BONDS

The Prohibition Commissioner corrects a misunderstanding regarding the limitation of permit bonds in the following statement: "The only permit bonds limited to a three-year period were bond Forms 1408 and 1409, which were established by Regulations 60. Regulations 60 were originally promulgated by T. D. 2985, approved January 16, 1920. Therefore, no bonds on Form 1408 or Form 1409 could have been filed before that date.

"The bonds filed in the latter part of 1919 were on Form 738, which had been the number of permit bond form since the promulgation of T. D. 2559, approved October 29, 1917. The wording of the form (but not the number) was changed by T. D. 2788, approved February 6, 1919, and was again slightly changed by T. D. 2940, approved October 29, 1919. In all three of these Treasury Decisions it is stated that the bond shall be "continuing and indeterminate."

"It is apparent, therefore, that no permit bonds will expire by limitation before January 16, 1923. Before that time arrives the newly approved amendment to Regulations 60, contained in T. D. 3398, will have become effective, and the new form of bond established therein will be substituted for all existing permit bonds on or before April 1, 1923. These new regulations will become effective on December 3, 1922, sixty days after the approval of T. D. 3398, which was October 3, 1922."

LONDON QUICKSILVER MARKET STEADY

Alexander Pickering, head of the London house of Alexander Pickering Co., says of the London quicksilver situation: "Before the introduction of the new duty on quicksilver American buyers found London a convenient market from which to draw supplies. The sudden heavy demand caused a considerable rise in the price, which at one time went as high as £14 per bottle. The American demand having been satisfied it was necessary to replenish the London market. With the new arrivals the market has eased off considerably, until today the price stands at £12. A fair volume of business is passing and the market is quite steady."

Mr. Pickering expects to return to England next week.

Judge Anderson of Boston has signed a decree ordering the sale of all the assets of the New Idria Quicksilver Mining Co., in accordance with the plan drawn up by the reorganization managers, Albert J. Meserve and Philip L. Reed. The plan as adopted is the plan originally suggested by the reorganization managers amplified and reasonably varied. Shareholders have until Jan. 1 to subscribe for stock of the new company.

The estate of Benjamin P. Ducas, importer of chemicals under the firm name Benjamin P. Ducas & Co., and principal stockholder in the Chemical Specialties Co., has been appraised at \$3,153,971. The bulk of the estate is to go to Robert N. Ducas, the son, when he is 35. The son is now 20. No provision is made for Mrs. Ducas, owing to a settlement arranged for her in 1917.

The thirty-eighth annual convention of the Association of Official Agricultural Chemists will be held in Washington, D. C., at the Raleigh Hotel, beginning Nov. 15.

Charles E. Smith, for thirty-five years employed by Parke, Davis & Co. at the firm's New York office, died suddenly Oct. 15, at the North Jersey Country Club.

The Intermediate and Dye Market

Current Spot Quotations of Intermediates, See Chemicals, page 1138

BUYING NOW FOR FUTURE NEEDS

Demand for Intermediates Improving and Prices Firm

—Crudes Continue Scarce—Phenol Advanced in Open Market and Reaches Highest Level Since 1918
—Benzol and Toluol Production Gaining

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Phenol, 4c lb.

Declined

No Declines

Trend of the Market.

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Benzene, C.P.	gal. \$30	gal. \$30	gal. \$30	gal. \$27	gal. \$1.10	\$26
Naphthalene, flake	lb. .07	lb. .07	lb. .07	lb. .07	lb. .16	.03
Phenol	lb. .30	lb. .26	lb. .22	lb. .09	lb. 1.50	.45
Xylene, 2 deg.	gal. .45	gal. .45	gal. .45	gal. .45	gal. ..	..
Toluene, pure	gal. .30	gal. .30	gal. .30	gal. .28	gal. 1.40	.10%
Aniline Oil	lb. .16	lb. .16	lb. .16	lb. .17½	lb. 1.40	.10%
Benzaldehyde	lb. .55	lb. .55	lb. .55	lb. .45	lb. ..	..
Betanaphthol, dist.	lb. .23	lb. .23	lb. .22	lb. .30	lb. 1.50	.08
Paranitroaniline	lb. .73	lb. .73	lb. .73	lb. .77	lb. 1.85	.08
Average .....	..... 0.342	..... 0.338	..... 0.331	..... 0.318	1.25	.167

Demand for intermediates has been improving and the market is on a firm basis. Buyers are showing greater confidence and are buying further in advance than has been the case heretofore. Values have remained steady except in those items which are immediately affected by the present scarcity and higher cost of raw materials. Coal tar crudes continue scarce and maker's production is well sold up. Phenol has advanced in the open market and is now at the highest level since 1918. Benzol and toluol production is gaining slowly, but is still far from meeting the demand. Aniline is in a firm position with stocks low and demand strong. Dimethylaniline has been advanced by one maker on the higher costs of production. Paranitroaniline is strong due to the recent advances in acetic acid. Amidophenols are in better de-

mand at this season. Gamma acid has been moving well. Beta-naphthol is quite active.

Coal Tar Crudes

Benzene—Although production has been increasing it has not been able to keep up with the demand. Maker's prices are unchanged. 90 per cent grade is quoted at 27c@32c as to quantity. C. P. is named at 30c@35c.

Cresylic Acid—Maker's production is sold up and supplies on spot are scarce. Some foreign material has been received but prices will be high. Maker's prices named at 55c@57c for 97 per cent dark. 97-99 per cent straw held at 60c@62c. Decolored at 80c@82c. Resale straw colored prices nominal. 75c @90c is generally quoted.

Naphthalene—Demand has been improving though movement has not been large. Crushed at works is named at 5c/lb in carlots. Flake prices range from 7c@8c as to quantity at works. Resale at 6½c@7½c. Balls at works at 8c@9c. Resale 7½c@8c.

Phenol—Small quantities are obtainable here and there though there is still a great scarcity. Prices have advanced and 30c@31c seems to be the inside figure now. This is the highest price paid for phenol in four years.

Toluene—Production is unable to meet the demand and maker is sold up. Very little is to be had for immediate shipment. Prices are unchanged and are quoted at 30c in tanks and 35c in drums at works.

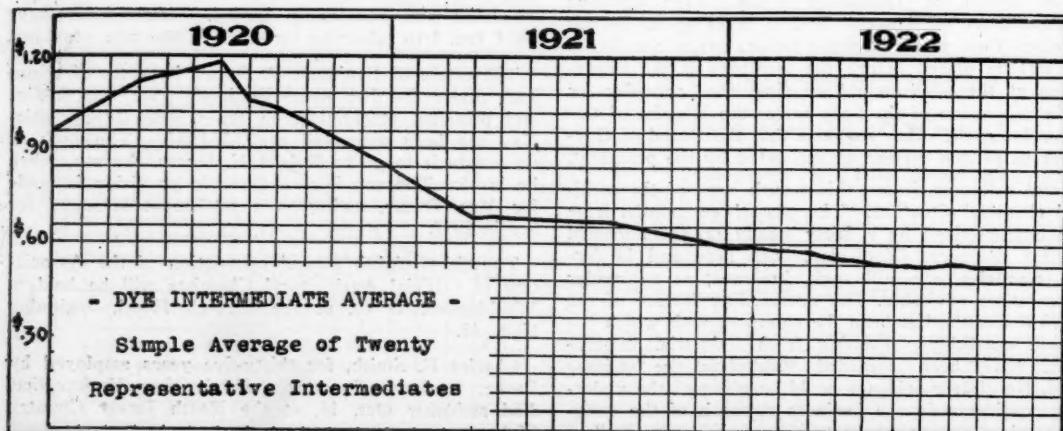
Intermediates

Acid, Anthranilic—No new developments have been noted. Technical is quoted at \$1.10@\$1.15/lb as to quantity. Refined named at \$1.30@\$1.35.

Acid, Benzoic—Technical named at 50c@55c according to quantity. U. S. P. at 60c@65c. Demand has been along routine lines.

Acid, Gamma—Demand is reported strong and makers busy filling orders. Prices quoted at \$1.75@\$1.85.

Acid, H—Movement is along good lines with renew-



ed interest shown by buyers. In large quantities makers quote 75c/lb and in single barrels at 80c/lb.

Acid, Naphthionic—Technical in barrels named at 60c@62c. Refined at 65c. Improvement in demand has been noted of late.

Acid, Salicylic—Continued advances in phenol have placed this commodity in a very strong position. Present prices named at 32c@33c for technical. U. S. P. quoted at 35c.

Aniline Oil—Demand continues strong and supplies in sellers' hands are low. Present range of prices name carlots at 16c. 10 drum lots quoted at 16½c and in smaller quantities at 17c.

Aniline Salt—Prices are firm and supplies are none too plentiful. Makers ask 24c/lb at works.

Benzidine—Demand continues to improve slowly. Prices still named at 85c@87c as to quantity at works.

Beta-Naphthol—Buying has been confined to moderate quantities but has been along steady lines. May be possible to do 22c/lb on firm order though price is generally quoted at 23c@24c.

Dimethylaniline—Scarcity and higher cost of raw material make market strong. Price advanced by one maker and others expected to follow. Range is from 36c@38c at works in the usual quantities ordered. Large lots 2c less.

Diphenylamine—No change in maker's price. Demand reported good. Named at 52c@54c as to quantity at works.

Nitrobenzene—Makers report good business and supplies somewhat limited. Crude named at 9½c@10½c. Redistilled at 10c@11c.

Ortho-aminophenol—Prices remain steady with improvement in demand. Quoted at \$2.35@\$2.50 as to quantity at works.

Para-aminophenol—Little improvement noted of late. Makers continue to quote at \$1.05@\$1.20. Hydrochloride at \$1.20@\$1.25.

Para-nitroaniline—In a strong position due to firmness of aniline and increased cost of acetic acid. 73c@78c is price generally quoted.

Para-phenylenediamine—Movement quiet. Quotations unchanged at \$1.50@\$1.60.

AUGUST IMPORTS OF DYESTUFFS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Nov. 1.—Imports of dyes during August included 4,738 pounds of natural indigo, valued at \$5,075 from Switzerland, and 1,890 pounds, valued at \$942, from England. There were no imports of synthetic indigo. Other dyes imported were:

Countries	Alizarin and Alizarin Dyes		Colors or Dyes, N.E.S.	
	Pounds	Dollars	Pounds	Dollars
Denmark	....	....	849	.596
France	3,529	3,582	1,096	1,281
Germany	52,380	64,115	118,783	204,945
Italy	5,279	4,888	3,744	5,508
Netherlands	2,619	3,555	1,568	1,576
Switzerland	....	....	104,921	194,501
England	....	....	10,708	4,820
Canada—Quebec & Ontario	....	....	33	215
Total	63,807	76,090	241,672	413,440

Countries	Extracts	
	Pounds	Dollars
France	6,700	1,381
Germany	66	.75
England	11,200	.605
Jamaica	8,158	.484
Dominican Republic	6,349	.460
British India	33,600	1,824
Japan	675	.34
Total	66,748	4,864

TARIFF ON DYES FINALLY FIXED

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Nov. 1.—The Treasury Department has finally announced a method for arriving at the American value of imported dyestuffs. The circular gives a concrete example by way of illustration, as follows:

Assume that certain dyes classifiable under Paragraph 28 were exported from Germany on September 15, 1922, and imported at New York on October 1, 1922, and that the 'such or similar imported merchandise' which Subdivision D, Section 402, Title 4, contemplates shall be taken as the standard of comparison was selling at New York on September 15, in the usual wholesale quantities, etc., at \$1.45 per pound. This price includes the various items for which Subdivision D provides that allowance shall be made.

Assume a maximum allowance of 8 per cent for profit; dividing \$1.45 by \$1.08 gives \$1.34 and subtracting this from \$1.45 leaves 11 cents as the amount of the profit included in the \$1.45. Assume a maximum allowance of 8 per cent for general expenses, dividing \$1.34 by \$1.08 gives \$1.24 and subtracting this from \$1.34 leaves 10 cents as the amount of the general expenses, included in the \$1.45.

Assume that the cost of transportation, insurance and other necessary expenses from the place of shipment in Germany to New York was 3 cents and deducting this from \$1.24, leaves \$1.21, which includes the dutiable value and the duty. Assume that such merchandise was an article which on September 15 was dutiable under Section 500 of the act of September 8, 1916, at 30 per cent ad valorem. Dividing \$1.21 by 130% gives 93c as the value upon which duty was assessed, and which is the United States value of the merchandise imported on October 1 and subject to the 60 per cent ad valorem rate provided for in the proviso of Paragraph 28.

The amount to be deducted as duty in each case will be governed by the amount of duty actually paid on the article used as the basis for computation.

The foregoing applies to purchased goods. In the case of consigned goods the appraiser will ascertain the amount of commission paid or contracted to be paid and allow not to exceed 6 per cent of the gross selling price, in lieu of the 8 per cent profit and 8 per cent general expense. The transportation costs and duty will be ascertained in the same manner as on purchased goods.

To successfully compete against the German dye manufacturers, American business men must rely more on the knowledge of United States chemists than on any tariff bill was the opinion expressed by Dr. Emmett E. Reid, of Johns Hopkins University, at a meeting of the Delaware section of the American Chemical Society held recently in Wilmington. Through experiments carried on by the most advanced methods, American chemists, he declared, have accumulated sufficient data and achieved ample results to assure the country's favorable entrance in the dye markets of the world.

The Research Committee of the American Association of Textile Chemists and Colorists held its eighth meeting at the Engineers' Club, Boston, on Friday, Oct. 13. Special committees, appointed at the June meeting to consider the fastness of dyed materials to light, and fastness to bleaching, reported considerable progress and that a complete statement would be ready for the next meeting.

The Oil Market

Current Spot Quotations of Oils, Tallow, Greases, page 1151

ANIMAL AND FISH OILS SCARCE

Cod and Menhaden Advance—Red Oil and Stearic Acid Higher—Tallows and Greases Firmer—Vegetable Oils in Better Demand—Castor Oil Is Cheaper—Business Improving as Soap Makers' Interest Increases

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Cod Oil 2c gal.	Menhaden Oil, 2½c gal.
Coconut Oil, edible, ½c lb.	Oleo Oil, No. 1, 1½c lb.
Corn Oil, crude, ½c lb.	Red Oil, ½c lb.
Greases, ½c@1c lb.	Stearic Acid, ½c lb.
Tallow, 1c lb.	

Declined

Castor Oil, ¾c lb.	Lard Oil, edible prime, 1¾c lb.
	Sperm Oil, 10c gal.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.	gal. \$.56	\$.54	\$.54	\$.42	\$1.27	\$.36½
Degras, American, bbl.	lb. .04	.04	.04	.03½	.25	.03½
Lard, No. 1:	gal. .76	.76	.75	.67	2.90	.92
Menhaden, crd. bbls.	gal. .43	.40	.38	.38	1.20	.35
Neatsfoot, 20 deg. c.t.gal.	1.35	1.35	1.35	1.00	3.45	.96
Red Oil, distilled:	lb. .10	.09½	.08½	.07½	.17	.07
Stearic Acid, T.P.	lb. 12½	.12	.10½	.11½	.33	.12
Coconut, Ceylon						
Dom., bbls.	lb. .08½	.08½	.08½	.09½	.20	.14
Cottonseed, crude, tanks.	lb. .07½	.07½	.07½	.07½	.25	.08
Linseed, carlots:	gal. .89	.89	.88	.67	1.76	.57
Olive, denatured:	gal. 1.15	1.15	1.15	1.10	4.50	1.05
Peanut, refined:	lb. 12½	12½	12½	.11	.30	.08
Soya Bean, bbls.	lb. 12½	12½	12½	.08½	.19½	.07
Average:	lb. 0.447	0.440	0.440	0.373	1.30	0.362

The market continues in a strong position with the supplies of animal and fish oils becoming less plentiful each day. Increasing demands by soap makers have made the market strong and prices have been tending upward. As the fishing season draws to a close, prices of fish oils are beginning to advance on scarcity of stocks. Cod oil has been advanced in the primary market and little is to be had locally. Menhaden stocks are said to be sold up and sellers are asking higher prices for the small quantities they have. The season is practically over in Chesapeake waters, and future operations

will be carried on further south. Lard oil is in a firm position. Greases have been advanced in price. Oleo oil is in good demand and higher in price. Tallow and tallow oil are higher. Red oil and stearic acid have been advanced. In the vegetable oils, linseed oil is firm with futures in good demand. Flaxseed prices are higher in the northwest. Cottonseed oil has been firm and market quotations are slightly higher than last week. Crude corn oil is in better demand and higher. Olive and palm oil are firm. Perilla oil is off the market. Castor oil is easier.

Vegetable Oils

Castor Oil—Market has been quiet and prices slightly easier. No. 1 quoted at 12½c@13c in barrels. In cases 14c. No. 3 at 12c@12½c.

Chinawood Oil—Trading has been quiet. Prices are practically unchanged with spot named at 12½c@13c. In sellers' tanks at coast 11½c@11½c. Orient to New York in barrels at 13c@13½c. In tanks at 12c@12½c.

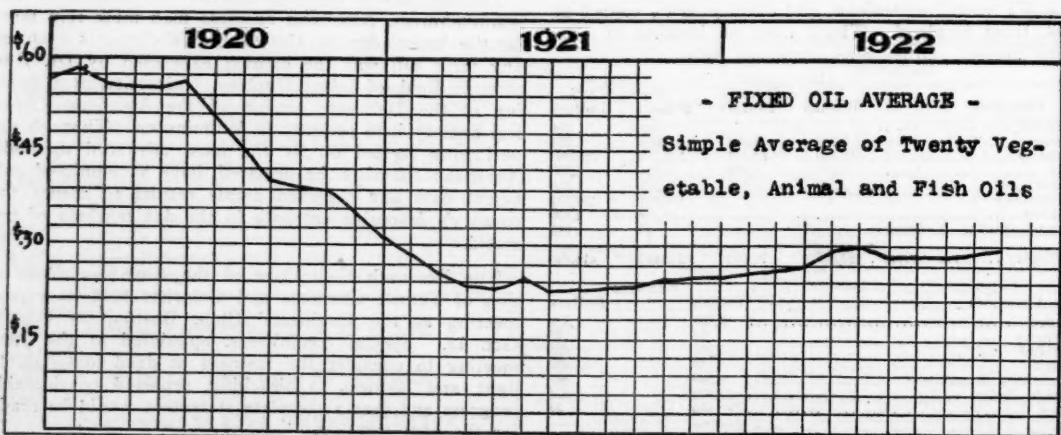
Coconut Oil—In better demand and firm. Ceylon in barrels New York at 8½c@8¾c. In tanks at 7½c@7½c. Manila tanks coast 7c@7½c. Edible 10½c@11c.

Corn Oil—Demand increasing. Crude in tanks higher at 7½c@8c. Refined in barrels New York at 12½c@12½c.

Cottonseed Oil—Prime summer yellow on spot at opening of week at 8.40c. Prices have been firm. November opened week at 8½c. June asked at 9½c. Crude in tanks at mills at 7½c. Southeast at 7½c. Texas 7½c.

Linseed Oil—Market remains in a firm position. Demand for futures good. Spot oil held at 89c@90c. November at 87c and December at 86c. Imported not in great demand. Quoted at 84c@86c in barrels. London prices advanced to 40s per quintal. Antwerp also higher at 247 francs per kilo. Flaxseed prices are higher in the northwest. October Duluth cash opened weak at \$2.60. November \$2.50. December \$2.40. May \$2.34. Winnipeg October \$2.40. November \$2.40. December \$2.01. May \$2.02. Buenos Aires steady at \$1.70%.

Olive Oil—Prices remain firm for denatured and edible. Shipment prices easier. Denatured at \$1.15@\$1.18. Edible at \$1.80@\$2.10. Shipment at 8c@8½c.



Palm Oil—Movement fair and prices firm. Lagos at 7½c@8c. Niger quoted at 6½c@6¾c.

Soya Bean Oil—Supplies are scarce and demand reported improving. Crude in tanks at coast 10c@10½c. Crude in barrels New York at 10½c@11c. Refined New York 12½c@12¾c.

Animal Oils

Lard Oil—Supplies continue scarce and prices firm. Prime technical quoted at 12½c. Edible prime lower at 14½c. No. 1 in barrels at 10¾c. No. 2 10½c.

Neatsfoot Oil—Quiet with prices steady. Pure in barrels New York at 12¾c. 20 degree cold test named at 18c and 30 degree at 14¾c.

Red Oil—Advanced again on scarcity and higher costs of materials. Distilled and saponified in barrels named at 10c.

Oleo Oil—Buyers showing better interest. No. 1 in barrels New York advanced in price. Now held at 12½c@12¾c. No. 2 unchanged at 10c@10¼c.

Stearic Acid—Makers have advanced prices due to increasing costs. Single pressed in bags at 10½c. Double pressed at 11c. Triple pressed distilled in bags at 12½c. Saponified at 13c.

Fish Oils

Cod Oil—Fishing season is at a close and stocks are somewhat low. Newfoundland quoted higher at 56c@59c. No supplies appear to be had on the local market.

Menhaden Oil—Available stocks have been sold and stocks are scarce. Sellers are asking higher prices. Sales were made at 42½c in tank lots. In barrels at works at 47c@49c.

Sperm Oil—Has been dropping steadily on good supply and small demand. 38 degree cold test bleached in barrels New York at \$1.05. 45 degree quoted at \$1.02.

Naval Stores

Turpentine—Prices eased off somewhat after reaching highest level in two years. Buying quiet at \$1.65 ex-yard New York. Savannah is also quiet at opening of week at \$1.58½.

Rosin—Southern markets quiet and prices have dropped. B \$6.90; B-M at \$6.95; N \$7.00; WG \$7.50; WW \$8.15.

VEGETABLE OILS HIGHER IN JAPAN

(*Special Correspondence to DRUG & CHEMICAL MARKETS*)

Tokyo, Japan, Oct. 12.—Bright spots are appearing in the vegetable oil market, following an unusually slack fall season. The market usually experiences heavy buying during the autumn months, but consumers have been holding off, evidently awaiting lower prices. They have held off to the point where stocks have been almost exhausted, and some buyers are again on the market. As a result, some oils are advancing.

American buyers are in the market at Dairen, and the soya bean trade there is more active. Rapeseed oil, which was declining, has advanced 20 sen per box, the standard grade now standing at yen 13.60. Sesame oil is stronger on better demand. China wood oil is still weak, but linseed oil is firm, now being quoted at yen 14.30 per box. Perilla oil is one of the brightest spots in the vegetable oil market. The standard grade now stands at yen 20, and the extra standard grade is 50 sen higher.

Frederick Kuttroff, for some time secretary of Kuttroff, Pickhardt & Co., dye importers, is dead at the age of forty-nine.

Oil Trade Notes

The Los Angeles Soap Co., 633 East First st., Los Angeles, Cal., is erecting an \$80,000 plant.

The Plant of the Atlantic Paint Co., New Orleans, was destroyed by fire on Oct. 10, loss being estimated at \$40,000.

The Lowe Brothers Co., 452 East 3rd st., Dayton, O., has work under way on its new plant addition, for the manufacture of paints. John M. Lowe is president.

The W. P. Fuller Paint Co., Los Angeles, Cal., is taking bids for a one-story plant, to be located at Ave. 22 and Barranca street, estimated to cost about \$40,000.

Toch Bros., New York, manufacturer of colors, paints and varnishes, will move shortly from 320 Fifth avenue to Bowery Savings Bank Building in Pershing Square.

Several additional plant units for the manufacture of paints and varnishes will be constructed at Malden, Mass., by Wadsworth, Howland & Co., Inc., 139 Federal st., Boston. About \$600,000 will be expended.

The elimination of echoes and the improvement of acoustics in general by the proper use of paint will be discussed when the National Paint, Oil and Varnish Association holds its convention in Atlantic City, Nov. 13 to 17.

The Independence Mfg. Co., Wheatsheaf Lane and Amamigo st., Philadelphia, has filed plans for the construction of a one-story plant at Wheatsheaf Lane and Canal st., to be equipped for the manufacture of greases and tallow.

John Lucas & Co., Inc., paint manufacturers, Philadelphia, have called a special meeting for Nov. 10 to vote on a proposed increase in capital stock from 15,000 shares, having a par value of \$1,500,000, to 75,000 shares, having a par value of \$7,500,000.

The Interstate Commerce Commission has announced that a hearing will be held in New York City on Nov. 8, before Examiner Howell of the Commission, relative to import rates on vegetable oils from Pacific Coast points to central freight association territory.

An intensely white enamel has been developed by the Technical Division of the Paint Department of the du Pont Co. It is designed for surfaces that are subjected to gas or fumes such as hospitals, laboratories, bakeries, canning plants, etc. It is acid resisting, and its color stability is excellent.

The monthly report of the Trade of Canada for August gives the value of imports of paints, pigments and varnishes as \$298,935, of which \$193,186 was from the United States, \$70,707 from Britain and \$35,042 from other countries; compared with total imports valued at \$254,567, of which \$135,747 was from the United States, \$53,674 from Britain and \$65,146 from other countries, in August, 1921.

The Department of Commerce in discussing industrial activity in September has the following to say regarding vegetable oils: "Production of cottonseed oil was slightly less than in September, 1921, but stocks of both cottonseed and cottonseed oil were slightly higher. Flaxseed receipts in the northwest exceeded those of a year ago, shipments were less and stocks very much smaller."

The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 1153

BUCHU LEAVES ADVANCE

Higher Spot Prices as Shippers Increase their Figures
—Asafetida Cheaper—Lycopodium and Hungarian Chamomiles Down—Shortages in Jalap Root, Pomegranate Bark, and Wahoo Bark Cause Higher Prices
—Manna Lower—Shellac Advancing

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Buchu Leaves, 10c lb. Jalap Root, 4c lb.
 Burdock Root, 8c lb. Pomegranate Bark, 14c lb.
 Corn Silk, 3c lb. Sarsaparilla, Hond. 30 lb.
 Elm, pwd., 1c lb. Shellac, 10c lb.
 Fennel Seed, French, 3c lb. Tolu Balsam, 2½c lb.
 Ginseng Root, \$1.00 lb. Wahoo Bark, root, 50c lb.
 Horehound Herb, 1c lb.

Declined

Asafetida, 3c lb. Lycopodium, 3c lb.
 Benzoin Gum, 8c lb. Manna, large, 20c lb.
 Cantharides, Chinese, 5c lb. Small, 4c lb.
 Russian, pwd., 5c lb. Sloe Berries, 2c lb.
 Chamomiles, Hung., 1c lb. Worm Seed, Levant, 20c lb.
 Leeches, 50c per 100

Trend of the Market

	Last Week	Last Month	Last Year	War Peak	War War
Aconite Root, U.S.P.	\$23	\$23	\$22	\$90	\$12
Buchu Leaves, Sheet.	1.00	.90	.125	4.00	.85
Cantharides, Russian	3.25	3.25	3.50	2.50	9.00
Coccus Indicus	.03½	.03½	.03½	.06½	.85
Ergot, Spanish	.58	.58	.68	1.10	.50
Insect Powder, pure	.52	.58	.52	.26	1.00
Ipecac, Cartagena, pwd.	1.75	1.75	1.75	1.60	4.50
Nux Vomica	.07	.07	.07	.10	.14½
Opium, gum	6.75	6.75	6.75	5.50	30.00
Rhubarb Root, H. D.	.44	.44	.47	.35	1.75
Tragacanth, No. 1, ribbon	1.75	1.75	1.75	3.00	6.00
Wild Cherry Blk., thin nat.	.09	.09	.09	.08	.21
Average	1.39	1.38	1.40	1.35	5.28
					1.00

A number of serious scarcities are developing in the American botanical drug group. Inability of growers to secure prices which would enable them to pick goods at a profit and adverse weather conditions have kept some of the new crops down to a minimum. Outside of this the market is normal enough with a fair volume of business reported done in all quarters. Buchu leaves are higher as import costs increase. Burdock and jalap roots, and pomegranate and wahoo barks are up. Asa-

fetida has weakened. Manna is again cheaper. Lycopodium, benzoin gum and Hungarian chamomiles are lower. Horehound herb has advanced. Ginseng root is sharply higher. Powdered elm is slightly firmer. Chinese cantharides and Russian powdered goods are off. Levant wormseed has been dropped. Rhubarb, ergot and sarsaparilla continue weak but unchanged. Shellacs are advancing.

Agar Agar—No. 1 grade held high with very little available on spot. Quoted practically nominally at \$1.48@\$1.58lb.

Asafetida—Cheaper as supplies become plentiful in a rather dull market. Now at 35c@38cib. Powdered article unchanged at 60c@62c.lb.

Belladonna—Holds firm at 12c@13c for leaves. Some sellers ask higher than 13c.

Buchu Leaves—Considerable material reported taken out of the spot market by speculative interests, and price advanced as shippers increased their figures. Bales now inside at \$1.00 with less than bales ranging from \$1.05 to \$1.10, as to quantity. Trend is to higher levels. For shipment 95c c. i. f. is reported asked.

Burdock Root—Virtually off the market. Nominal at 20c@22cib.

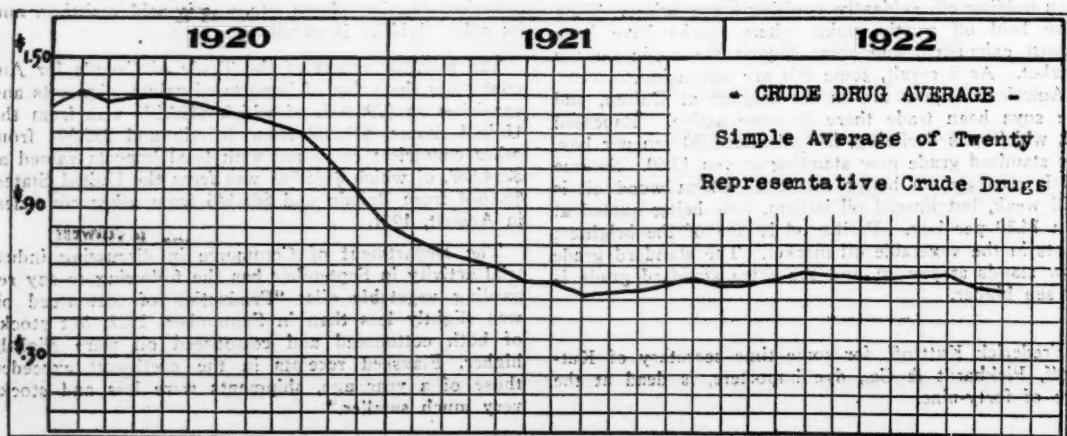
Cannabis—Small amount of U. S. P. goods available held at \$1.25. Off grade material offered from 40c up.

Cantharides—Chinese whole goods have been reduced to \$1.05@\$1.10. Russian powdered cut to \$3.70 @\$3.75. Chinese powder and Russian whole unchanged at \$1.25 and \$3.25 respectively. Market without interest.

Cascara Sagrada—Scarce on spot but 10c price is reported quoted for goods on the coast. Spot 12c@14c is named. Firm at that figure.

Chamomiles—Hungarian goods weak and in poor demand at reduced figures. Offered at 23c@25c. Roman firm for shipment and scarce spot at 75c@80cib.

Cloves—In this market better than 31c is not openly quoted as goods are scarce. For arrival within three weeks 26c is named. For late shipment as low as 16c c. i. f. has been heard.



Corn Silk—Up to 5½c@6c/lb as stocks are low.

Cubeba—Outside seller offers XX at 80c@82½c and powder at 85c@87½c unchanged. Crude drug houses hold their prices higher. Market is loaded with considerable material and only routine interest is manifested.

Elm—Powder slightly higher at 14c@17c. Bundles weak and uninteresting at 27c@28c unchanged.

Ergot—Spot open quotations 58c@60c but rumors lead one to believe a better price could be uncovered with an order. Shipment figures range so widely and source and grade of material are so questionable that definite information cannot be given at present.

Fennel Seed—Higher for import and up to 12½c@13c on spot. Sellers predict higher prices as 12c is asked for shipment. German firm at 20c@22c.

Ginseng Root—All grades higher as goods are scarce. Cultivated \$7.50@\$10.00, N. W. wild \$12.00@\$15.00, and S. wild \$9.00@\$11.00. Ranges are as to quality.

Horehound Herb—Enjoying a good demand at advanced figures. Now 9c@9½c and tending upward.

Jalap Root—Advanced to 25c@30c for 7 to 10 per cent test whole. Powder up to 29c@34c as to grade and seller. Goods that test 20 per cent offered temporarily at 35c/lb. Shortage of material causing higher prices.

Leeches—Reduced to \$9.00@\$9.50 per 100 by lone spot holder.

Licorice Root—Supply of whole and powdered natural goods not up to normal. Bales at 9½c@10c with powder at 10½c@11½c. Selected bundles plentiful at 18½c@25c/lb. Cuttings 9c@10c. Russian root due in two weeks offered at 8c for arrival.

Lycopodium—Off to 72c@75c. Demand poor and quantity of available goods large.

Manna—Arrival of new crop causing prices to go still lower. Small flake down to 38c@40c. Large flake down to 65c@70c.

Pomegranate Bark—Bark of root and fruit practically nominal at 30c.

Sarsaparilla—Increasing demand caused Honduras stocks to firm at 50c@52c. Mexican weak at 24c@25c.

Sloe Berries—Cut to 3c in effort to uncover possible buyers of this long inactive article.

Tolu Balsam—Low priced goods off market and price back at 70c@75c/lb.

Wahoo Bark—Bark of root virtually unobtainable at \$1.25.

Wormseed—Levant seed dropped to \$3.30 to meet lower priced arrivals.

Shellac—All grades of shellac have been advanced sharply on spot as Calcutta shipment figures increase. T. N. at 70c@72c, superfine orange at 75c@80c, bone dry at 82c@84c, and powdered regular at 80c@82c. Still higher prices are predicted as demand grows.

The Commissioner of Internal Revenue is sending out the following notice to collectors regarding modification of special denatured formula No. 47: "Effective thirty days from date hereof Formula No. 47, specially denatured alcohol, may no longer be withdrawn for use in the manufacture of Tincture of Arnica, N. F. It may continue to be withdrawn and used for the manufacture of liniments for external purposes pursuant to approved formulas."

The Croft Drug Co., Terrell, Tex., suffered loss estimated at \$5,000, by fire and water on Oct. 15. Partially covered by insurance.

WHOLESALE DRUGGISTS PLAN PUBLICITY

(*Special to DRUG & CHEMICAL MARKETS*)

Buffalo, N. Y., Nov. 1.—The Federal Wholesale Druggists' convention, which was held at the Hotel Statler, brought together a large number of members of these co-operative corporations identified with the central body, including more than one hundred delegates and not less than eighteen representatives of the twenty-five companies in the organization.

Subjects discussed were business methods, systems of accounting and credits. Delegates told their experiences in the management of their companies and what they were doing to bring these enterprises to a higher state of efficiency. The election of officers resulted as follows:

President—C. Krieger, of the Ellicott Drug Co., Buffalo.

Vice-President—W. A. Hargraves, of the Drug Trading Co., Toronto, Canada.

Treasurer—O. J. Cloughly, of the St. Louis Wholesale Drug Co., St. Louis.

Secretary—R. E. Lee Williamson, Calvert Drug Co., Baltimore.

Executive Committee—J. H. Marshall, Northwestern Drug Co., Minneapolis; O. B. Thuma, Cincinnati Economy Drug Co., Cincinnati; J. J. Dryer, New Jersey Wholesale Drug Co., Newark, N. J.

A special publicity committee was appointed to place before the druggists of the country who are not members of the co-operatives the benefits of membership, and show them what is being done to improve the position of the retailers. This committee is made up of R. T. Blackwood, Philadelphia Wholesale Drug Association; F. T. Stone, Washington Wholesale Drug Exchange, and J. J. Dryer, of the New Jersey Wholesale Drug Co.

Invitations were received from the following cities for the convention of 1923: Chicago; Atlantic City, N. J.; Toronto, Canada, and Minneapolis, Minn. A selection will be made later.

The companies comprising the association represent over 12,000 retail druggist stockholder customers, and have an invested capital of approximately \$7,000,000, with an annual estimated business of \$60,000,000, an estimate based upon the turnover for 1922.

THE DRUACHEM CLUB'S SURPRISE

The Druachem Club will give an entertainment and dinner on Monday evening, Nov. 6, the night before election, at the Club Headquarters, 160 Pearl street. Members are wondering what the Entertainment Committee has arranged for the programme. The announcement that there will be no speakers has aroused intense interest in the identity of the entertainers, but the committee remains silent. The hour is 6:30, and members must not only send in reservations early this week to secure seats, but must also be on time to get the seats they expect because when the announcement of the "head liners" is made the front seats will be appropriated without regard to right, title or ownership.

The committee in charge of the dinner includes Ben Spencer of B. M. Spencer & Co., B. J. Fogarty of J. L. Hopkins & Co., Richard Prentice of W. Benkert & Co., John A. Chew of the Warner Chemical Co., and George Huisking of Chas. L. Huisking, ex-officio.

G. A. N. King, secretary and treasurer of McLaughlin, Gormley, King & Co., Minneapolis, Minn., is expected in New York City Thursday, Nov. 2.

[NOVEMBER 1, 1922]

The Essential Oil Market

Current Spot Quotations of Essential Oils, page 1157, Aromatic Chemicals, page 1158

ITALIAN ORANGE OIL CHEAPER

Weakness Abroad Reflected in Lower Spot Figures—Wormseed Again Sharply Higher as Offerings in the Country Advance in Price—Bergamot Lower on Spot—Oil Peppermint Continues To Decline—Bitter Almond and Spearmint Easier

**PRICE CHANGES IN NEW YORK
(Stocks in First Hands)****Advanced**

Oil Cloves, 10c lb. Oil Hemlock, 10c lb.
Oil Wormseed, 50c lb.

Declined

Oil Almond, bitter, 25c lb. Oil Nutmeg, 5c lb.
Oil Bergamot, 15c lb. Oil Peppermint, 10c lb.
Oil Cananga, 25c lb. Oil Spearmint, 15c lb.
Oil Orange, Italian, 5c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	\$3.00	\$3.15	\$3.00	\$5.25	\$7.00	\$5.00
Oil Citronella, Ceylon .....	.46½	.46½	.50	.40	.92	.60
Oil Cloves	2.00	1.90	2.15	2.45	3.70	1.40
Oil Lemon .....	.65	.65	.65	.70	1.70	2.00
Oil Peppermint, Nat.	2.60	2.70	2.85	1.75	9.00	2.25
Oil Sandalwood, E. I.	6.65	6.65	6.75	7.00	13.50	5.25
Oil Sassafras, Artif. ....	.42	.42	.42	.53	1.00	.26
Benzaldehyde, U.S.P.	1.40	1.40	1.40	1.40	5.15	1.50
Coumarin	4.00	4.00	3.50	3.75	31.00	3.10
Methyl Salicylate, Cans....	.47	.47	.41	.35	1.00	.90
Vanillin .....	.45	.45	.45	.60	.95	.29
Average	2.00	2.02	2.01	2.20	6.83	2.05

Consumers are coming into the market with greater regularity and are taking on goods in increasing quantities. Essential oil sellers say that while they could do more business they are not complaining about the volume that is passing at present. Prices were subjected to the usual run of changes during the week, few of which were sharp enough to be of great importance. Orange is reported quite weak in Italy and spot values are easier. Bergamot prices are lower. Bitter almond oils are cheaper. Oils peppermint, natural and

redistilled, were reduced again. Wormseed is advancing. Oil cloves reacted to the \$2.00 level. Hemlock oil is firmer. Oils spearmint, nutmeg and cananga are off. Methyl salicylate is firmer. Aromatic chemicals continue upset.

Essential Oils

Oil Almond—Bitter oil is easier as interest is not particularly active at present. One seller has reduced his U. S. P. goods to \$4.00@\$4.25. All hands are down to \$4.00@\$4.25 on ff PA. Sweet oil available in quantity at 40c. Ranges to 45c as to brand and seller.

Oil Anise—Shipment reported firmer at 46c c. i. f. On spot 50c@55c is quoted for technical with U. S. P. goods at 55c@60c.

Oil Bergamot—Has suffered a temporary relapse owing to inactivity on part of consumers. Offered at \$3.00@\$3.15 on spot according to amount taken.

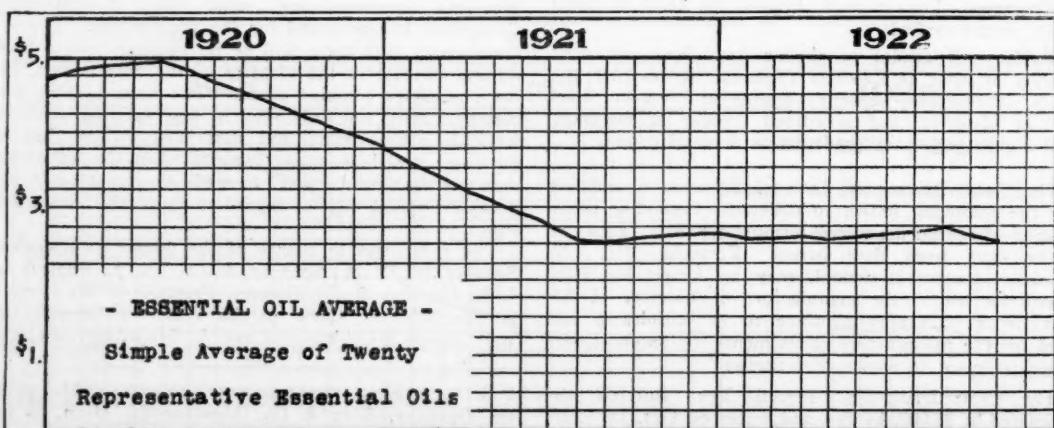
Oil Cananga—Eased off to \$2.25@\$2.50 for native and \$2.50@\$2.75 for rectified. Removal of duty softened figures considerably.

Oil Cedar Leaf—Generally quoted from 85c to \$1.00 as to quantity and seller. On 1,000 pound orders 80c can be done in one quarter. Prices range widely as to quality.

Oil Citronella—On sufficient quantities of oil in drums 46½c is being done. Ranges to 48c on single drums. Cans are unchanged at 48½c@50clb. Java oil due this week offered at 68c@72clb in drums. For cans 75c@80c is asked. Ceylon oil not likely to go a great deal lower but prices will probably be slightly easier.

Oil Cloves—Has reacted to \$2.00@\$2.10 for cans and \$2.10@\$2.20 for bottles as distillers advanced their quotations to the trade. Buying of spice in open market caused temporary reaction. One seller said \$1.50 was being named for January oil delivery.

Oil Coriander—Scarce and high on spot and for shipment. From \$22.00 to \$25.00 according to desire of holder to sell.



Oil Cubeb—Held at \$5.75@\$6.00 as to quantity. Lone sellers asking up to \$6.40lb.

Oil Eucalyptus—Available at 40c in quantity. Ranges to 45c. Firm as demand is increasing steadily.

Oil Ginger—Plenty of oil on spot generally quoted at \$5.25@\$5.50lb. Better might be done with a firm order for considerable material.

Oil Lemon—Weak and uninteresting at 65c@80c as to quantity, holder and brand. In regular channels better than 67c cannot be done. Lower priced material in hands of speculators, is report.

Oil Hemlock—Scarcity of spot goods has firmed price to \$1.10@\$1.25 as to seller.

Oil Mustard—Price war still on and artificial goods can be had very cheap. In 100 pound cases \$2.30lb is quoted. For less \$2.50@\$2.75 as to quantity.

Oil Nutmeg—Easier at 85c@95c in a dull market.

Oil Orange—Soft in Italy and lower on spot at \$2.60@\$2.70. In large amounts \$2.50 is possible. West Indian weak at \$2.40@\$2.50. American oil at \$2.90@\$3.00. Interest in all grades low.

Oil Peppermint—Cheaper in country and on spot. Natural oil quoted \$2.60@\$2.70 with U. S. P. down to \$2.85@\$3.00. Quiet and soft at those figures.

Oil Spearmint—Down to \$2.50@\$2.60 as prices for shipment from country become easier. Producers willing to make concessions to move their goods, as buying of new crop has not been animated.

Oil Wormseed—Has advanced sharply to \$3.25@\$3.50lb as control of oil in the country tightens. The combine or factors who have cornered goods in producing centers want \$3.00 f. o. b. Supply is reported good but determination of producers to realize more is increasing prices. Trend is upward.

Aromatic Chemicals

Are still in too uncertain a state to enable sellers to quote anything resembling a firm price. Question as to what products are made in this country and as to the price after manufacture has been established is preventing importers from standing on a steady basis. Some goods are being brought in by sellers who are willing to "take the bit in their teeth" but for the most part activity in this line is lacking. Strenuous efforts are being made to clear the problem.

Methyl Salicylate—Phenol advanced again during the week and higher prices for synthetic wintergreen can be looked for in the near future as it seems likely phenol will go still higher. Methyl sal now at 45c in drums and 47c in cases. Resale at 43c@44c for small amounts.

Coumarin—Firm but in good supply in makers' hands at \$4.00@\$4.10. Resellers are quoting up to \$4.25.

Note—The essential oil prices quoted under "Prices Current," and those mentioned above are all ranged as to quantity and some as to quality. Consumers cannot obtain small amounts of the oils at the inside price. A container given in connection with a price does not necessarily mean that the price is based on the quantity which the container holds. Containers named are the original packages most commonly sold in this market.

Burton T. Bush and M. J. Seeley, of Antoine Chiris Co. sailed for Europe Tuesday, Oct. 24, on the Aquitania. They will be at the Paris offices of the company part of the time, returning to the United States about the first of December.

SICILIAN ESSENTIAL OIL PRICES

(*Special Correspondence to DRUG & CHEMICAL MARKETS*)

Catania, Sicily, Italy, Oct. 14.—Although the Italian lira declined further in value, bringing the United States dollar to lira 23.50 and the English pound sterling to lira 104, the prices of essential oils gained little. The following table gives an idea of how the prices have oscillated recently:

	Aug. 27	Sept. 3	Sept. 24	Oct. 1
Lemon juice	6.75	7.00	7.00	7.00
Sweet orange	32	31	27@29	32@33
Bitter orange	31.50	31	24	26
Mandarine	46	45	44	47
Bergamot oil	43	42.50	44.50	42@43

Machine pressed lemon juice was offered at too high a price to find buyers. Sweet orange juice declined continually until Sept. 24, when a recovery began on stronger demand, especially from exporters.

The Sicilian product suffered through the competition of Calabrian orange juice, that appears to have been better pushed. A certain quantity of orange juice of the old production found sale. Future deliveries of this juice were offered at a lower price; and some contracts were booked. Bitter orange was less fortunate than sweet orange juice, and its price declined continually, recovering very little.

Milan, Oct. 14.—Despite the fall in essential oil prices on the Sicilian market the price of sweet orange on the Milan market advanced. The same was the case with bitter orange. On bergamot oil the rise in price continued until the end of September. A slight fall in price was noted in October. The price of lemon juice was little affected, but mandarin oil prices fell continually, owing to absence of demand.

Essential Oil Notes

Mr. and Mrs. J. H. Montgomery are the parents of twins, born Oct. 25. The mother and the children are reported doing well. Mr. Montgomery is with Antoine Chiris & Co.

The annual convention of the American Bottlers of Carbonated Beverages and the National Beverage Exposition will be held during the week of Nov. 13-17 at Atlanta, Ga. Advance information indicates that both affairs will be very successful.

The Essential Oil Co., Trenton, N. J., has been reorganized and the sales have been taken over by the American Linseed Co. Headquarters are now located at 297 4th avenue, New York, the office of the American Linseed Co., which owns the essential oil concern.

Shipkoff & Co., Ltd., are now selling their otto of rose through their own American office at 219 Pearl street, New York. A definite policy has not yet been determined, but at present the concern will not market the oil through an agent. Antoine Chiris & Co., who were the selling agents for Shipkoff in this country until Oct. 1, expect to have their own brand of otto of rose in the future.

Over eighty per cent of the perfumery and cosmetic manufacturing concerns in the United States employ under five persons in their establishment. In 1919 there were 569 firms in this field, employing 9,446 persons as against only 496 firms in 1914 which employed 5,421 persons. New York State produces more of these materials than any other State and the value of its products more than trebled during the five years between 1914 and 1919. The figures were \$7,507,864 and \$26,708,960. Illinois, New Jersey, Ohio and Michigan follow in order of importance.

[NOVEMBER 1, 1922]

The Consuming Industries

RUBBER COMPANIES MAKING CONTRACTS FOR 1923 SUPPLIES OF CRUDE PRODUCT

British Plan to Limit Output in Ceylon, Malay States and Straits Settlements—Holland Balks at Agreement—Effect of Export Duties on Prices—Will Restrictions Enhance Rubber Products?

The plan to restrict the crude rubber output in Ceylon, the Malay States and the Straits Settlements, which is recommended by the Rubber Committee of the British Colonial Office, has stimulated American companies to make provision for 1923 supplies. Already, several British companies have made contracts with American consumers. Provision is made to protect companies which have sold a larger quantity than is allocated to them under the restriction scheme.

By an agreement with the Timbang Deli (Sumatra) Rubber Co., the General Rubber Co. of New York engages to take the Sumatra company's entire output of standard rubber from Jan. 1 next to the end of 1924. The rubber is deliverable ex go-down on the estate, the price to be the average of the daily quotations for London spot standard smoked sheets, calculated monthly, with a minimum of 8d per pound and a maximum of 16d per pound, the maximum to be increased by the amount of any export tax in existence at the time the price is calculated. This contract is automatically renewable for further periods of two years unless terminated by six months notice by either party.

The investment of more than \$500,000,000 in the shares of rubber companies financed in England has been an important factor in causing Great Britain to act independently in the effort to curtail the production of crude rubber in the Far East. The refusal of Holland to co-operate by limiting the output of her colonies is based upon the belief of Dutch financiers that the law of supply and demand should rule. It is known, however, that thousands of acres in the Dutch East Indies have gone out of rubber cultivation owing to low prices.

The Rubber Committee of the British Colonial Office recommends that compulsory restriction should be put into operation in Ceylon, the Malay States and the Straits Settlements as soon as possible. Generally speaking they suggest as the standard output for the forthcoming period the actual output of each producer for the twelve months ended Oct. 31, 1920. Control of exports is to be instituted with a sliding scale of export duties according to the percentage of standard production exported, the duty to begin at a minimum of 1d per pound and rise 1s per pound in the case of a company exporting the equivalent of its total standard production. At the initiation of the scheme the percentage exportable at the minimum rate of duty is to be sixty. When the rubber situation improves so as to justify increasing exports this percentage figure will be reconsidered.

The demand for tanning materials at Turin, Italy, improved with the beginning of October, owing to the fear of many tanners and merchants that prices would advance. Some quotations per 100 kilos are: Quebracho extract, lire 330 to 335; chestnut extract, lire 105 to 110; Smyrna valonea, lire 75 to 90; English sulfate of soda, lire 230 to 250.

New Consuming Companies

Sho-Form Co., Buffalo, \$25,000. To make soap products. L. E. Moschel, W. F. and F. G. Messing; attorneys, Persons & Blair, Buffalo.

Crystal Soap & Chemical Co., Wilmington, Del., \$100,000. Corporation Trust Co. of America.

Gloria Productions, Inc., Wilmington, \$1,400,000. To make motion picture films. Corporation Trust Co., 37 Wall st.

Consolidated Coca Cola Bottling and Distributing Co., Wilmington, \$2,000,000. Delaware Registration Trust Co.

Universal Cleaning and Dyeing Corp., Dover, Del., \$200,000. Corporation Trust Co. of Delaware.

Femigloria Laboratories, New York, \$250,000. To make cosmetics and perfumes. W. R. Smith, B. Brown, J. Ross; attorneys, Zeigler & Berliner, 44 Beaver st.

Tropical Extract & Color Co., New York, \$10,000. E. Lainfiesta, P. Davis, W. Cahill; attorney, C. N. Angell, 15 James Slip.

Clinton Chemical Corp., Irvington, N. J., \$125,000. To make drugs. F. W. Wilcox, H. B. DeForest, New York; George F. Schmitt, Irvington.

Chemical Enterprises, Inc., Bronx, N. Y., \$100,000. To make disinfectants. J. Grossman, 3060 Albany Crescent, New York. Corporation Trust Co., 37 Wall st.

American Beauty Shop Mfg. Co., Dover, \$100,000. J. F. Mayhew, J. A. Brooks, F. H. Miller, Pittsburgh; Colonial Charter Co., Dover.

Elihide Co., Dover, \$1,000,000. To make roofing and paving materials. J. G. Runkle, Cambridge, Mass.; Harry L. Reed, Wakefield, Mass.; Ed. F. Logan, Lynn, Mass.; Corporation Service Co., Dover.

McCullough Drug Stores Co., Wilmington, \$2,000,000. Corporation Trust Co. of Delaware.

S. K. B. Drug Stores, Glen Cove, N. Y., \$10,000. B. Singer, A. Kabinick; attorney, B. H. Kabinick, Glen Cove.

Noun Chemical Co., New York, \$5,000. To make patent medicines. E. D. Neuman, H. C. Harvey; attorney, F. F. Neuman, Jr., 601 W. 144th st.

Chester Perfume Soap Co., Brooklyn, \$5,000. M. Blumberg, I. Wartofsky; attorney, S. Rosenberg, 309 Broadway.

Cramer & Jardine Drug Co., Rochester, N. Y., \$20,000. A. H. and J. Jardine, B. A. Cramer; attorney, M. Miller, 62 State st., Albany.

Trichromatic Engraving Co., New York, \$50,000. C. A. Grotz, J. H. Tyron, E. Campbell; attorney, R. B. Olsen, 200 5th ave.

Ko-Fan, Wilmington, \$5,000,000. To make beverages and syrups. Corporation Trust Co. of America.

Putt Corp., Dover, \$100,000. To make confectionery. Elizabeth Putt, Eliz. G. French, Philadelphia; Herbert L. Maris, Penfield, Pa.; rep., A. A. Watson, Dover.

S. Jack Haines Corp., New York, \$10,000. To make shellacs, varnishes, etc. S. J. Haines, M. Spitzer; rep., J. J. Ryan, 355 West 149th st.

Novatone Co., Brooklyn, \$5,000. To make paints and dyes. L. and M. Ornstein, J. Randolph, J. H. Garmesy, 51 Chambers st.

Tartantane Mfg. Co., Inc., Bangor, Me., \$96,000. To make soap products. H. H. Hanson, S. F. Chalfin, C. D. Bartlett, Bangor.

Birmingham, Little & Prosser Co., Kansas City, Mo., \$60,000. To make paper products. John Birmingham, E. H. Becker, Con J. Murphy, Kansas City.

Ko-Kondel Co., Houston, Tex., \$14,000. To make insecticides. T. E., J. W. and H. F. Harrington, Houston.

United States & Mexican Oil Co., Richmond, Va., \$15,000,000. To make petroleum products. C. W. Beale, G. B. Hazelgrove, Richmond.

United States Glass Corp., Pittsburgh, \$5,000. W. W. McAdams B. D. Booker, F. J. Holub, 747 Union Arcade.

E. & H. D. Medicine Co., Inc., Baltimore, \$10,000. To make medical and toilet preparations. C. F. Erhardt.

Peerless Products Co., First st., Mt. Washington, Md., \$100,000. To make varnishes, thinners and paints. Floyd T. Macgill.

Peroxide Mfg. and Specialty Co., San Francisco, \$100,000. E. S. Pillsbury, James D. Adams, Robert J. Lipman.

Southern Tanning & Mfg. Co., Punta Gorda, Fla., \$50,000. To make leather products. J. T. Sweeney, T. C. Crosland, W. W. Knight, Punta Gorda.

Fixem Mfg. Co., Detroit, Mich., \$35,000. To make chemical specialties. Carl Wrobel, M. Peters, A. P. Norton, 3066 Van Dyke ave., Detroit.

East West Refining Co., Los Angeles, Cal., \$100,000. To make petroleum products. F. S. Wilson, G. B. Clark, Santa Monica, Cal., S. R. Harding, Los Angeles. Registrar & Transfer Co., 900 Market st., Wilmington.

Swihall Mfg. Co., 410 Rush st., Chicago, \$25,000. To make rubber specialties. A. E. and O. W. Anderson.

GLASS COMPANIES BUSY

Flasks, made of a new kind of glass, were dropped from a height of four yards and were used to hammer nails into boards, at a recent meeting of the Prague Association of Sugar Technicians, and did not break. No cracks in the glass were visible after the flasks were subjected to rapid temperature changes. There is not enough of the proper grade sand, however, to make the manufacture of this new material a commercial proposition.

The Houton-Bates Glass Co., Poteau, Okla., manufacturing bottles and other containers, has sold its plant to George F. Collins, Sapulpa, Okla. The new owner will make a number of extensions and improvements, increasing the capacity of the factory.

Various blown glass products will be made at two new plants located at Monroe and Cedar Grove, La. Thomas Stilwell, Anderson, Ind., and persons connected with the Lippincott Glass Co., Hartford City, Ind., are in charge.

The Graham Glass Co., Fairmount, Ind., will make extensions and improvements in its plant. The works are temporarily shut down while new operating equipment and a tank are being installed, but will reopen at an early date.

The Van Buren Glass Co., Van Buren, Ark., is taking over the plant which formerly belonged to the Arkansas Products Co., and expects to reopen the works at an early date. A new line of glassware will be manufactured.

The Monroe Glass Co., recently organized, is building a 25,000 plant which will be in operation by the first of the year. John Hartman, Alexandria, La., vice-president of the concern, is in charge of operations.

A new glass products plant will locate in Pawhuska, Okla., if Chamber of Commerce plans do not miscarry.

ACTIVITIES OF PAPER MAKERS

The Cost Association of the paper industry will hold its annual convention at Holyoke, Mass., Nov. 9, 10, 11. The organization expects to gather statistics relative to costs in order to assist in economic production insofar as is possible. Opportunity will be given cost men in various branches to form separate groups for round table expense problem discussions.

Bamboo paper pulp may be on the market before another year, says a report from India. There are thousands of square miles of forest in Burma and India which contain bamboos and grasses capable of being made into paper. Experiments have been conducted and companies have been organized to develop the industry.

The Paper Manufacturers' Co., 526 Cherry st., Philadelphia, will build a new five-story mill at Fifth, Willow and Randolph sts. The construction work will cost about \$75,000. Francis A. O'Neill is president.

The Central Paper Co., Muskegon, Mich., is building a three-story addition to its mill on Richard st. E. J. Gaddes, secretary of the firm, says the cost will be \$200,000.

The Stone & Forsythe Co., 67 Kingston st., Boston, manufacturing paper products, is building an addition to its mill on Spring st., Everett, Mass.

The Tri-State Pulp and Paper Co., High Bridge, N. J., has increased its capital from \$800,000 to \$13,200,000.

Trade Tips for Sellers

The Hydro United Tire Co.'s plant at Pottstown, Pa., has been reopened by John P. Hill, receiver. The daily output is 600 tires.

Directors of the Eastern Manufacturing Co., makers of pulp and paper, elected Stuart W. Webb president, following the resignation of F. R. Ayer.

The Howard Smith Paper Mills, Inc., will erect a plant in which it will make its own bleached soda pulp. The new plant will have a capacity of 15,000 tons annually.

The Tidewater Glass Co., Jacksonville, Fla., has awarded a general contract to Frank Richardson, Jacksonville, for a new plant estimated to cost \$150,000, including machinery installation.

Plate glass prices have risen 33 per cent in two months due to higher cost of labor and fuel, coupled with the rail strike and freight embargos. Stocks are low and demand is reported good.

A new company has been organized to operate a silk mill in Lehighton, Pa. Robert L. Bohman was instrumental in forming the firm. A site will be selected at once and work on the plant rushed.

The Zenor Bottle Co., Fort Smith, Ark., recently incorporated with a capital of \$50,000, is planning the installation of new operating equipment. C. P. Zenor is president and James B. McDonough vice-president.

The Clark Knitting Co., Warren, Ohio, recently organized, will begin to make mercerized hosiery at its new plant within sixty days. R. E. Jones is president and E. E. Clark secretary and general manager of the concern.

The Fall Mfg. Co. is erecting a new cotton and cord factory at Granite Falls, N. C., which will be managed by the Fall company, under the name Southern Mfg. Co. D. H. Warlick is secretary and treasurer of the Fall Mfg. Co.

The Goodyear Tire & Rubber Co., Akron, O., has resumed operations at its Ford tire plant following a recent shutdown. The Republic Rubber Co., Youngstown, O., and the Dayton Rubber Mfg. Co., Dayton, O., have increased production.

J. Spaulding & Sons Co., 484 Broome st., New York, have plans for the erection of additional plant buildings at its fibre works on Wheeler street, Tonawanda, N. Y., to supplement structures now nearing completion. With machinery installation the work is estimated to cost about \$150,000.

The Southwell Wool Combing Corp., North Chelmsford, Mass., has organized under state laws with capital of \$150,000. The concern will scour, card and comb wool in the building formerly occupied by the Lowell Textile Co. Jacob Reed, Worcester, Mass., is president, and James Southwell is vice president, treasurer and general manager.

Paper pulp import duties have been trebled by the French Government, according to a decree issued Sept. 22. Exemption from the increased rates have been made in the case of goods to be used in the printing of newspapers, periodicals or books. These goods must be as follows: Paper other than fancy paper, machine made, and weighing more than 30 grams per square meter; fancy paper coated in white.

[NOVEMBER 1, 1922]

The Foreign Markets

Imports of Drugs and Chemicals, page 1159

OPIUM AND ACETONE ADVANCED

Codliver Oil, Castor Oil and Quicksilver Lower—Citric and Tartaric Acids and Potassium Bromide Easier—Oil Camphor, Eucalyptus, Mint Oil and Caustic Potash Firmer

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Nov. 1.—Prices are steadier in the fine chemical and crude drug markets, this week. Advances are announced on opium, acetone, foenugreek seed and shellac.

Oil camphor, eucalyptus, mint oil and caustic potash are firmer.

Citric acid, potassium bromide and tartaric acid are easier.

English castor oil, codliver oil and quicksilver are lower.

London, Oct. 23 (By Mail)—The further depreciation in foreign exchange values, especially German, adds weekly to the depression which has characterised the export markets for so long, and while the home trade is a trifle more cheerful, there is little inducement to hold any more Drug Auctions this year, and the next date is early in January. Out of the large lists issued only a few lots, mainly market articles, were disposed of. A new feature was the offering of two cases of soda bromide put forward as part of a larger parcel "to arrive" from Holland. Sennas were neglected, Ipecac Rio was firmer to dearer, rhubarb sold rather readily, and Zanzibar chillies were lower. Honey was in good supply and fetched fairly full prices for about 250 packages. There was no call for Cape aloes but Curacao sold more freely. In the open markets Zanzibar cloves were dearer while chloral hydrate and quicksilver have been offering somewhat lower. Cod liver oil is lower again, and bids for 1922 finest Norwegian are solicited at 88s c. i. f. per 25-gallon barrel; 1921 quality is available on spot at 82s.

Zanzibar cloves are dearer owing to diminished stocks and sales have been made up to 1s 5d per lb. Forward shipment to the end of the year 7½d c. i. f.

Citric acid continues a weak market and business would be possible at, to under, 2s per lb.

Beta naphthol, technical—After a long period of depression mainly due to German consignments last year this useful product is recovering, it being reported that stocks of foreign makes have now been cleared. Manufacturers report that they are now easily obtaining 1s 2½d per lb—which is still unprofitable business to them—as against 9d and 10d per lb in recent months from second hands.

Eucalyptus oil is firmer and as the winter season approaches will probably go higher as stocks are none too plentiful. High testing quality costs 1s 5½d to 1s 6½d per lb as to brand and Cineol content.

Menthol is a shade firmer at 32s per lb for best brands. Present shipment 27s 6d c. i. f.

Sugar of milk is now obtainable at 105s per cwt, being easier.

Zanzibar chillies are cheaper at 122s 6d to 127s 6d per cwt. Mustard seed, English, is now fetching 32s 6d to 37s 6d per cwt.

Phenacetin can be obtained round about 4s 6d per lb, which is cheaper.

	FOREIGN EXCHANGE	Par.	Current
Great Britain (pound sterling)	\$4.886	\$4.460	
France (franc)	.193	.070	
Italy (lira)	.193	.040	
Germany (mark) per hundred	23.80	.026	
Czechoslovakia (crown) per hundred	20.30	.031	
Poland (mark) per hundred	23.80	.067	
Japan (yen)	.499	.481	
Spain (peseta)	.193	.152	
Holland (guilder)	.402	.388	
Belgium (franc)	.198	.065	
Norway (crown)	.268	.179	
Switzerland (franc)	.193	.180	
Sweden (crown)	.268	.267	
Denmark (crown)	.268	.200	
Argentina (peso)	.424	.355	
Brazil (milreis)	.279	.115	
China (Silver dollar—Hongkong)	.789	.562	
(Tael—Shanghai, silver)	1.062	.737	
(Tael—Peking, silver)	1.156	.775	

Permanganate of potash is a good market at .8d per lb.

Chloral hydrate would appear to be worth attention at the lower figure of 4s 4d per lb duty paid.

Phenazone is quietly firm at 7s per lb to over as to quantity.

Ipecacuanha is firm. Rio of fair quality commands 7s per lb and Cartagena is held for 7s 6d.

Sennas—The parcels up for sale were of ordinary quality and the usual grades may be quoted as follows:

Small to medium yellowish 2½d to 2¾d per lb; medium to bold greenish 5¾d per lb; pods 2½d to 2¾d per lb.

TESTING BOLL WEEVIL EXTERMINATOR

Smethurst & Meade of Manchester, England, have placed on the market an insecticide, non-arsenical and non-poisonous to human beings and animals. Unlike calcium arsenate, it can be applied to growing cotton under any weather conditions and does not require being brought into solution before it exerts its effects. Investigations are being made in England by Professor Todd, of the Cotton Research Association. It is claimed that the powder is effective against the boll weevil and the pink worm and cup worm parasites of the Egyptian and Indian cotton fields. Extensive trials are being made in the United States in the cotton growing lands of the Delta and Pinelands Co.

Venezuelan balata gum gatherers earn 414 bolivars per year and spend 750 earning them, according to an official Department of Commerce report. The cost of production is evidently far out of proportion with the price which the product commands and, as the announcement says, the workers get less than nothing for their labors.

Candelilla wax production around Saltillo, Mex., has fallen off since the end of the war, according to a report issued by the U. S. consul stationed there. It is understood that European interests are considering reviving the industry and contracting for the entire output.

The Mexican Candelilla Wax Co., Torreon, Mex., and several other candelilla manufacturing plants in the States of Coahuila and Nuevo Leon, have resumed operations after a shutdown of several years.

AID FOR COMPANIES TRADING IN CHINA

Regulations for carrying out the provisions of the China Trade Act, approved by the President, Sept. 19, 1922, which is considered one of the most important measures from the standpoint of foreign trade promotion which Congress has enacted in years, were issued Oct. 26 by Secretary Hoover. Owing to special provisions by Great Britain, France, and Japan for firms and corporations operating in China, American establishments in the China trade have been suffering under a heavy handicap which is removed by the passage of the China Trade Act. The Act provides for exemption from federal income taxation of stock in corporations directly engaged in commerce in China, held by Chinese or American stockholders resident in China, provided the amount of money so exempted is distributed annually as a special dividend to such stockholders.

To obtain the benefits of the Act firms must be organized as District of Columbia organizations, with the specific purpose of trading in China. Acting Commercial Attaché Frank Rhea, Peking, has been designated by Secretary Hoover as Register under the terms of the Act and F. R. Eldridge, chief of the Far Eastern Division of the Department of Commerce, as assistant registrar. Application for registration should be addressed to The Assistant Registrar, China Trade Act, Department of Commerce, Washington, D. C.

SWISS CHEMICAL IMPORTS DECREASE

Swiss chemical imports for the first six months of 1922 showed decreases compared with the imports for the same period during 1921, according to the "Anglo-Swiss Review."

The figures for the two years were as follows: calcium chloride, 146 tons, against 320; hydrochloric acid, 667 tons, against 1,363; sulfuric acid, 1,318 tons, against 3,309, and aluminum sulfate 651 tons, against 7,715. There were increases in imports of sulfur from 690 tons to 2,092 tons, and of potash and caustic soda from 1,123 tons to 3,046 tons. Imports of benzine increased from 15,850 to 18,073 tons; aniline from 58 to 508 tons; and starch and starchy materials from 1,504 to 2,003 tons. The decrease in the import of accessory materials for the manufacture of aniline colors, is noteworthy, 509 tons against 1,351. Imports of soap decreased from 2,336 to 809 tons. There were, however, considerable increases in imports of coconut and palm oil 1,128 tons against 465; tallow and bone fat, 992 tons against 621.

There was an increase in exports of perfumery, 459 tons against 100; soda 242 tons against 166, and indigo 1,350 tons in January-June of the present year, compared with only 49 tons within the first half of 1921.

A plant for the manufacture of liquid chlorine is under construction by the Canadian Salt Co. at Windsor, Ontario. This is the first plant of its kind to be erected in Canada and will have a capacity of ten tons a day.

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet, and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

4037—Linseed oil.—Italy. Agency desired.

4044—Chemical oils.—Sweden. Agency desired. Quotations c. i. f. Swedish port or Drontheim, Norway. Terms, cash against documents.

4066—Sodium salts, potassium salts, antimony salts and glycerin.—Columbia. Agency desired.

GERMANY'S PRODUCTION OF NITRATES ALMOST DOUBLE THE PRE-WAR OUTPUT

Colossal Total of Fixed Nitrogen Available for Explosives and Fertilizers Will Make Her Independent of Other Countries—Dr. August Mueller's Criticism of Plan To Buy Chilian Saltpetre

Dr. August Mueller, German socialist and former member of the Cabinet, criticised Prussia's proposition for wholesale deliveries of Chilian saltpetre in a statement made in Berlin last week. Dr. Mueller said that Germany was producing 85 per cent more nitrogen than in pre-war years, the output this year amounting to 340,000 tons.

Dr. Mueller's statement says that large agriculturists who are obliged to deliver grain to the Government already have sufficient fertilizer; that small and medium-sized farms either do not use artificial fertilizer or are not in a position to take advantage of the proposed offer; and that the prices of nitrogen produced in Germany probably would be forced down and the domestic product might have to be exported. Dr. Mueller declares that if the large agrarians accepted the Chilian products it would probably be only as a matter of speculation, with the expectation of reselling it at a profit.

Dr. Muller says the Prussian scheme reckons that 15 kilograms of nitrogen is available for each hectare of grain land, or less than half the amount ordinarily required. By the importation of 1,000,000 tons of Chilian saltpetre, according to this plan, the deficiency in clear nitrogen would be supplied and the grain production would be increased from 2,500,000 to 3,000,000 tons.

It is contended, however, by Dr. Mueller that in giving 400 kilograms of saltpetre in exchange for every ton of grain, as the plan contemplates, the Government would be obliged to pay more than at the present time for the requisitioned grain.

Dr. Mueller say the Prussian scheme reckons that October and says that since the price of Chilian saltpetre depends on the dollar rate of exchange, the increased cost to the Government at the present time would be still higher. He says 1,000,000 tons of Chilian saltpetre today would cost about 160,000,000,000 marks and that the Government consequently would have to pay approximately 70,000 marks for a ton of requisitioned grain, assuming that the price of grain should not rise.

The output of platinum and the incidental production of gold in all the Ural mines from January to July 15 amounted to 700 pounds of platinum and 158 pounds of gold. Iridium to the amount of 111 grains was recovered. Since July the provisioning and the financial condition of the mines have improved which has favorably affected production. Up to July 1 production was considerably below the program, whereas the July program was exceeded by 30 per cent.

Reports from England state that there has been a little improvement in the demand for heavy chemicals for home consumption during the month, but export business remains very unsatisfactory, though there has been a slight increase in shipments to the Colonies and India. Prices have been fairly steady, but are showing a tendency to go to lower levels. Competition from Germany does not appear so dangerous since prices in that country have been advanced.

The Norwegian Nitrogen Products Co., Inc., New York, direct importers of the products of Norsk Hydro Elektrisk Kvaefstofaktieselskab of Christiana, Norway, will distribute their products immediately after Oct. 24, 1922.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: Chemicals, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; Crude Drugs; Essential Oils, including oleoresins; Fatty Oils, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; Tanning and Dye Extracts, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

PACKAGES—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices when available, and indicated as such. Chemical prices quoted

herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f.o.b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oil prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20 American Gallons
1 American Gallon	—.833 Imperial Gallon
1 American Gallon	—3.79 Liters
1 Liter	—.264 American Gallon
1 American Gallon (Water)	—8.35 pounds
1 Pound (Avoirdupois)	—.454 Kilograms
1 Kilogram	—2.20 Pounds

Style and Arrangement Copyright by DRUG & CHEMICAL MARKETS, 1922

Chemicals

ACETANILIDE, tech 150 lb. bbls. B	.35	: .26	ACID, Carbolic—(Continued)	
100 lb. kgs. B	.36	: .27	Crude, 25% 50 gal. bbls. gal. .27 : .20	
USP 200 lb. bbls. B	.30	: .22	10%, 50 gal. bbls. gal. .22 : .18	
Acetic Anhydride, 85% 450 lb. drs. B	... .	: .37	Chloroacetic,	
85%, 167 lb. drs. B	... .	: .40	mono, 100 lb. bbls. wks. B .40 : .50	
90% drs. B	... .	: .39	Di, 150 lb. chys. wks. B .39 : .40	
Acetone, CP 700 lb. drs. c/l wks. B	... .	: .10	Tri, 425 lb. bbls. wks. B .245 : .45	
700 lb. drs. le/l wks. B	... .	: .19 1/2	Chlorosulfonic, 1500 lb. drs. wks. B .15 : .16	
350 lb. drs. le/l wks. B	... .	: .19 1/2	Chromic, USP 200 lb. drums. B .15 : .40	
Second Hand, spot. B	.19	: .19 1/2	85% Pure, 200 lb. drums. B .35 : .35	
Acetophenone, CP 1 lb. bot. B	4.00	: 4.25	Chrysophanic, 5 lb. cans. B .275 : .300	
Acetophenetidin, 150 lb. bbls. B	1.85	: 1.95	CITRIC, USP crys. 230 lb. bbls. B .50 : .50	
Acetyl Chloride, 100 lb. chys. B	... .	: .35	Powd., USP 200 lb. bbls. B .51 : .51	
ACID 1, 2, 4, 250 lb. bbls. B	... .	: .80	Imported, cryst. 112 lb. kgs. B .50 : .50	
Acetic 28%, 400 lb. bbls. c/l			Single kegs. B .50 : .51	
Acetone, 200 lb. bbls. B	... .		Cleve's, 250 lb. bbls. B .150 : .154	
Acetone, 200 lb. bbls. B	... .		Cresylic, 95% dark dr. wks. B .55 : .57	
Acetone, 200 lb. bbls. B	... .		97-99% straw, drs. wks. B .60 : .62	
Acetone, 200 lb. bbls. B	... .		97-99% straw, drs. rosale. B .75 : .90	
Acetone, 200 lb. bbls. B	... .		97-99% decolor. drs. wks. B .80 : .82	
Acetone, 200 lb. bbls. B	... .		Formic, 75% tech. 100 lb. chys. B .16 : .17	
Acetone, 200 lb. bbls. B	... .		90%, 75 lb. chys. incl. B .16 : .18	
Acetone, 200 lb. bbls. B	10.10	: 11.50	Gallie, USP 150 lb. bbls. B .70 : .75	
Acetone, 200 lb. bbls. B	... .		Gamma, 225 lb. bbls. B .1 : .85	
Acetone, 200 lb. bbls. B	... .		Bbls., ton lots. wks. B .1 : .75	
Acetone, 200 lb. bbls. B	... .		Glycerophosphoric, 25% 1 lb. B .165 : .170	
Acetone, 200 lb. bbls. B	... .		H, 350 lb. bbls. single. B .1 : .80	
Acetone, 200 lb. bbls. B	... .		Bbls. ton lots. wks. B .1 : .75	
Acetone, 200 lb. bbls. B	... .		Hydrobromic, 10% USP 5 lb. bot. B .60 : .65	
Acetone, 200 lb. bbls. B	... .		Hydrofluoric, 48% coml. 155 lb. chys. B .38 : .38	
Acetone, 200 lb. bbls. B	... .		48% coml. 10 chys. wks. B .38 : .38	
Acetone, 200 lb. bbls. B	... .		40% CP 155 lb. chys. wks. B .45 : .45	
Acetone, 200 lb. bbls. B	... .		10% USP 100 lb. chys. wks. B .11 : .13	
Acetone, 200 lb. bbls. B	... .		Hydrochloric, see also Acid Muriatic	
Acetone, 200 lb. bbls. B	... .		CP, USP, 110 lb. chys. B .07 : .08	
Acetone, 200 lb. bbls. B	... .		HYDROFLUORIC, 30% 400 lb. bbls. B .08 : .08	
Acetone, 200 lb. bbls. B	... .		30% bbls. c/l wks. B .08 : .08	
Acetone, 200 lb. bbls. B	... .		30% 100 lb. chys. wks. B .08 : .08	
Acetone, 200 lb. bbls. B	... .		48% single 100 lb. chys. wks. B .11 : .11	
Acetone, 200 lb. bbls. B	... .		48% 10 chys. wks. B .10 : .10	
Acetone, 200 lb. bbls. B	... .		52% 100 lb. chys. wks. B .12 : .12	
Acetone, 200 lb. bbls. B	... .		52% 10 chys. wks. B .11 : .11	
Liquid, USP 1 lb. bbls. B	... .		MURATIC, 20% chys. 1/2	
Liquid, USP 1 lb. bbls. B	... .		wks. B .100 lb. 1.20 : 1.85	
Liquid, USP 1 lb. bbls. B	... .		Crys. c/l wks. B .100 lb. 1.10 : 1.50	
Liquid, USP 1 lb. bbls. B	... .		Tank cars, wks. B .100 lb. .90 : 1.10	
Liquid, USP 1 lb. bbls. B	... .		15%, 140 lb. chys. B .100 lb. 1.00 : 1.10	
Liquid, USP 1 lb. bbls. B	... .		c/l wks. B .100 lb. .90 : 1.00	
Liquid, USP 1 lb. bbls. B	... .		22%, 140 lb. chys. B .100 lb. 1.50 : 1.75	
Liquid, USP 1 lb. bbls. B	... .		Iron, free, 20° chys. B .100 lb. 1.35 : 1.35	
Liquid, USP 1 lb. bbls. B	... .		Tank cars, wks. net ton 20.00 : 25.00	
Liquid, USP 1 lb. bbls. B	... .		Muriatic, CP, & USP, see Acid Hydrochloric	
Liquid, USP 1 lb. bbls. B	... .		Naphthenic, tech. 250 lb. bbls. B .90 : .95	
Liquid, USP 1 lb. bbls. B		Refined, single bbls. B .90 : .95	
Liquid, USP 1 lb. bbls. B		Merville & Winter's, 250 lb. bbls. B .115 : 1.30	

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135 WILLIAM STREET

NEW YORK

[NOVEMBER 1, 1922]

Chemicals

NITRIC, 36° 135lb cby.

wks.	100 lb	5.50	:	6.15
Coya, c/l wks.	100 lb	4.50	:	5.25
35° single cby. wks.	100 lb	5.65	:	6.55
Coya, c/l wks.	100 lb	5.90	:	6.65
40° Single cby. wks.	100 lb	6.50	:	7.15
Coya, c/l wks.	100 lb	5.25	:	6.25
45° Single cby. wks.	100 lb	7.25	:	7.90
Coya, c/l wks.	100 lb	5.50	:	7.00
C. P. cby. single wks.	100 lb	...	:	13.00
Oxalic, 325lb bbls.	wks.	14	:	.15
Bals., NY	lb.	...	:	15%
Kegs, 100lb	lb.	15	:	15%
Imp., 560lb csks.	lb.	14	:	15
Phenylactic, 1lb bot.	lb.	2.50	:	3.00
Phosphoric, 50% tech.	100 lb	...	:	
cby.	lb.	.08	:	.09
USP, 85% syrup, 70lb	demis	16	:	.17
Phthalic, 100lb bbls.	lb.	...	:	...
Picramic, 300lb bbls.	lb.	...	:	.65
Picric, 300lb bbls.	lb.	...	:	.30
Bals. car lots wks.	lb.	...	:	.20
Pyrogallic, crys. 5lb cans.	lb.	1.15	:	1.20
Resublimed, 5lb cans.	lb.	1.55	:	1.60
Tech. powd. 200lb bbls.	lb.	...	:	.80
Salicylic, tech. 125lb bbls.	lb.	.32	:	.33
UEP, 100lb bbls.	lb.	...	:	.35
Second Hands	lb.	.33	:	.35
Sulfanilic, 250lb bbls.	lb.	.17	:	.19
SULFURIC, 68° 175lb cby.				
le/l wks.	100 lb	1.10	:	1.50
Coya, c/l wks.	100 lb	.95	:	1.25
1500lb Drums, le/l				
wks.	100 lb	...	:	1.10
Drums, c/l wks.	100 lb	...	:	1.00
Tank cars, wks.	net ton 14.00	...	:	15.00
60° 1500lb Drums,				
le/l wks.	100 lb	.70	:	.90
Drums, c/l wks.	100 lb	.60	:	.80

ACID SULFURIC

Tank cars, wks.	net ton	9.00	:	11.00
C. P. 175lb cby.	100 lb	...	:	8.00
Oleum, 20 p.c. 1500lb drums,				
le/l wks.	100 lb	1.25	:	1.50
Drums, c/l wks.	100 lb	1.10	:	1.25
Tank Cars, wks.	net ton 17.00	...	:	18.00
Contract cars, wks.	ton 17.00	...	:	18.00
Oleum, 60° drs. le/l wks. net	ton	...	:	35.00
Oleum, 60° drs. le/l wks. net	ton	...	:	65.00
Sulfurous, USP 6% 100lb cby.	lb.	.05	:	.06
4% 100lb cby.	lb.	.04	:	.05
USP, 5 gal. demis.	lb.	.06	:	.08
Tannic, tech. 300lb bbls.	lb.	.40	:	.50
USP, powd. 200lb bbls.	lb.	.70	:	.75
USP, fluffy, 50lb bbls.	lb.	.75	:	.80
Tartaric USP cryst 300lb bbls.	lb.	...	:	.32
USP, powd. 300lb bbls.	lb.	...	:	.32
Imp. USP 240lb bbls.	lb.	.30	:	.31
Powd. 240lb bbls.	lb.	.30	:	.31
Tobias, 250lb bbls.	lb.	1.50	:	1.55
Tungstic, 100lb kegs.	lb.	...	:	1.00
Aconitine Alk. cryst. 1 oz. vls.	oz.	...	:	30.00
Amorphous, 1 oz. vls.	oz.	...	:	20.00
Adeps Lanae, hydrous 350lb bbls.	lb.	.18	:	.20
Anhydrous, 350lb bbls.	lb.	.22	:	.24
ALCOHOL, USP 190 pf. 50 gal.	bbls.	...	:	4.75
Second Hands, bbls. USP 190	pf.	...	:	4.65
Export, USP 190 pf.	gal.	.35	:	.40
Cologne Spirit, 50 gal. bbls.	gal.	4.75	:	4.80
Wood, 95% 50 gal. bbls.	gal.	.95	:	.97
97%, 50 gal. bbls.	gal.	.98	:	.99
Pure, meth. 50 gal. drums.	gal.	1.05	:	1.07
Acetone free, 50 gal. drums.	gal.	1.10	:	1.15
Alcohols, also in 50 gal.				
drums, extra and returnable.				
Amyl, see Oil Fuel				

Alcohol—(continued)

Butyl, 50 gal. drums.	lb.	.20	:	.22
Cinnamic, liquid, 1lb bot.	lb.	15.00	:	16.00
Crystallizable	lb.	24.00	:	25.00
Isobutyl, crude 50 gal. drums.	gal.	...	:	4.40
Refined, 10lb can.	lb.	...	:	.75
Isopropyl, crude 50 gal. drs.	gal.	...	:	2.25
Refined, 50 gal. drs.	gal.	4.00	:	4.50
Refined, 91% drs.	gal.	...	:	3.50
Methyl, see Alcohol, Wood				
Phenylethyl, see Phenylethylalcohol				
Propyl, nml. crd 50 gal. drms.	gal.	...	:	4.40
Refined, 10lb can.	lb.	...	:	.75
Denatured				
No. 1 Complete Denat. 188 Proof				
50 gal. bbls. incl.	gal.	.41	:	.42
50 gal. drums, extra	gal.	.36	:	.38
No. 1 Special Denat. 190 Proof				
50 gal. bbls. incl.	gal.	.38	:	.40
50 gal. drums, extra	gal.	.33	:	.35
No. 5 Complete Denat. 188 Proof				
50 gal. bbls. incl.	gal.	.38	:	.40
50 gal. drums, extra	gal.	.33	:	.35
No. 6 Complete Denat. 188 Proof				
50 gal. bbls. incl.	gal.	.37	:	.39
50 gal. drums, extra	gal.	.32	:	.34

In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their use, however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue. For prices on specially denatured alcohols not listed above, consult any of the alcohol producers.

ZINC OXIDE
Snow Cap Brand 5% Tomahawk Brand 35%

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Cable address "Comsolvent" London

Chemicals

		Aluminum Sulfate—(continued)		Ammonium Chloride—(continued)	
Aloin, USP 100 lb cases.....	lb .84 : .90	Cont. bags, c/l wks. E. 100 lb	... : 1.40	Imp., wh. 600 lb casks spot. lb	.06 1/4 : .06 1/4
Alpha-Naphthol, tech 300 lb bbls. lb	... : 1.05	Bags, c/l wks. W. 100 lb	... : 1.35	Gray, 600 lb casks spot. lb	.08 : .08 1/4
Ton lots, bbls. wks.....	lb ... : 1.00	Bbls., c/l wks. East. 100 lb	... : 1.55	Lump, 500 lb casks spot. lb	... : .15
Refined, 300 lb bbls.....	lb ... : 1.10	Bulk, c/l cont. wks. E. 100 lb	... : 1.35	Ichthyolate, as to brand..... lb	.75 : 4.00
Alpha-Naphthylamine, 350 lb bbls. lb	... : .32	Amidol, (see Diaminophenol)		Iodide, USP 25 lb jars..... lb	4.85 : 4.90
Ton lots, bbls. wks.....	lb ... : .30	Amidopyrine, 10 lb boxes..... lb	5.00 : 5.10	Lactate, 500 lb bbls..... lb	.15 : .16
ALUM, Ammonia, lump 400 lb bbls.	wks. ....100 lb ... : 3.50	1 lb cartons, 10 lb..... lb	... : 5.18	Nitrate, tech. crys. 225 lb bbls. lb	.05 1/4 : .06
Ground, 400 lb bbls. wks. 100 lb	3.50 : 3.85	Aminoazobenzene, 110 lb kgs.... lb	... : 1.15	CP gran. 100 lb kegs..... lb	.10 : .22
Powd., 380 lb bbls. wks. 100 lb	... : 3.90	AMMONIA anhyd. 100 lb cyl. lb	... : .30	Oxalate, pure, 100 lb kegs... lb	.50 : .57
Chrome, 500 lb cks wks. 100 lb	5.00 : 6.00	Water, 26° 800 lb drs. wks. lb	... : .07 1/4	Persulfate, 112 lb cases..... lb	.55 : .60
Potash, lump 400 lb bbls.	wks. ....100 lb ... : 4.50	Drs. c/l wks..... lb	.07 : .07 1/4	Phosphate, dibasic 200 lb bbls. lb	.54 : .60
Bbls. c/l wks....100 lb ... : 4.25		Imp., 800 lb drs incl spot. lb	... : .06	Tech. powd. 325 lb bbls... lb	.15 : .17
Cont. bbls. c/l wks....100 lb	... : 4.25	26°, 100 lb chys. lc/l wks. lb	... : .08 1/4	Salicylate, USP 100 lb kegs.. lb	.58 : .61
Imp. 650 lb casks sp. 100 lb	3.50 : 3.75	Cbys. c/l wks..... lb	... : .08 1/4	Sulfate, bulk c/l wks....100 lb	... : 3.20
Ground, 400 lb bbls. wks. 100 lb	4.35 : 4.60	20°, 800 lb drs. lc/l wks. lb	... : .06	200 lb single bg c/l wks. 100 lb	... : 3.30
Powd., 380 lb bbls. wks. 100 lb	4.50 : 4.75	Cbys., lc/l wks..... lb	... : .07 1/4	200 lb double bags f.a.s. 100 lb	... : 3.55
Chrome, 700 lb cks wks. 100 lb	5.50 : 6.00	16°, 800 lb drs. lc/l wks. lb	... : .04	Sulfocyanide, tech. 100 lb kgs. lb	.50 : .52
Soda, grd. 400 lb bbls. wks. 100 lb	... : 4.00	Cbys., lc/l wks..... lb	... : .05	CP. 25 lb jars..... lb	.60 : .65
Bbls. c/l wks....100 lb ... : 3.50		Ammonium Acetate, 100 lb kegs. lb	.35 : .36	Amyl Acetate, tech 50 gal drs. gal	2.00 : 2.25
Aluminum, metal, c/l NY...100 lb	20.00 : 21.00	Benzzoate, USP 1 lb bot..... lb	.85 : .90	Pure, 5 gal cans..... gal	5.00 : 6.00
Chloride, anhyd. 275 lb drs. lb	.20 : .22	Eifluoride, 300 lb bbls..... lb	.22 : .23	Alcohol, see Fuel Oil	
30% sol. 120 lb chys..... lb	.03 1/4 : .04	100 lb kegs .....	.23 : .24	Butyrate, 1 lb bot..... lb	1.65 : 2.00
Hydrate, light 90 lb bbls.	.17 : .18	Bromide, 50 lb boxes..... lb	... : .33	Formate, 1 lb bot..... lb	1.75 : 2.00
SULFATE, Iron-free bags c/l	wks. ....100 lb ... : 2.50	Imported, 112 lb boxes..... lb	.18 : .20	Salicylate, 100 lb chys..... lb	1.35 : 1.40
Imported, spot ....100 lb	2.50 : 2.62 1/4	Carb. tech. 560 lb casks.... lb	... : .09 1/2	Anethol, 2 lb bot..... lb	2.00 : 2.25
Comm'l., 1/2% iron, bags. c/l	wks. ....East 100 lb 1.40 : 1.50	Powd., tech. 385 lb bbls. lb	... : .10 1/2	ANILINE OIL, 900 lb drs. 5dr.sp. lb	.16 : .17
		USP, lump, 100 lb kegs. lb	... : .07 : .08	Aniline Salt, 200 lb bbls..... lb	.20 : .24
		Powd., 100 lb kegs. lb	.09 : .10	Anisic Aldehyde, 1 lb bot..... lb	4.00 : 4.50
		Chloride, Domestic		Anthracene, 40-45% 600 lb casks	
		White gran. 250 lb bbls wks. lb	... : .07 1/4	wks. ....lb ... : .12 : .17	
		Bbls. c/l wks..... lb	... : .07 1/4	80-85%, 600 lb casks wks... lb	.75 : 1.00
		Gray 250 lb bbls. wks.... lb	.07 1/4 : .07 1/4	Anthraquinone, subl. 125 lb bbls. lb	1.30 : 1.35
		Bbls. c/l wks..... lb	.07 1/4 : .07 1/4	30% paste 350 lb bbls..... lb	.75 : .80



CARBON TETRACHLORIDE

Last year the use of Carbon Tetrachloride as a fumigant against wheat weevil was introduced. This material is particularly desirable as it is absolutely non-inflammable and can be used in sections where Underwriters' rules will not permit the use of Carbon Bisulphide.

Can be supplied in 5-, 10- and 55-gallon drums.

THE DOW CHEMICAL CO.

Midland, Mich.

90 West St., New York



[NOVEMBER 1, 1922]

Chemicals

ANTIMONY CHLORIDE, anhyd 1000lb	
dras.	lb .45 : .50
50lb crocks	lb .12 : .14
Sol'n 130lb carboys	lb .06% : .06%
Oxide, 500lb bbls	lb .40
Sulfide, golden 500lb bbls	lb .16
336lb kgs	lb .18
Crimson, 500lb bbls	lb .35
336lb kgs	lb .37
Red, 500lb bbls	lb .40
336lb kgs	lb .41
Tartralactate, 500lb bbls	lb .45
Antipyrine, USP, 100lb cases	lb 2.25 : 2.50
Apopomorphine Hydrochloride, % on vls. oz.	lb 16.65
Arecoline Hydrobromide, 1 oz. vls. oz.	lb 10.50 : 12.00
Argols, red powd. 350lb bbls	lb .07 : .08
Arsenic, metal 220lb kgs	lb .23 : .24
Red, 224lb kgs cases	lb .12 : .13
White, 550lb bbls 1c/l...	lb .10% : .11
112lb c/s	lb .10% : .11
Aspirin, see Acid Acetyl salicylic	
Atropine Alk. USP 1 oz vls.	ton 10.00 : 10.50
Sulfate, 5 oz. in 1 oz. vials.	lb 4.50 : 4.60
BARIUM BINOXIDE, see Barium dioxide	
Carbonate, precip. 800lb bbls	
wks.	ton 75.00 : 85.00
Imports, bbls. spot	ton 70.00 : 75.00
Precip., 200lb bgs, wks.	ton 70.00 : 75.00
Chloride, 800lb bbls, wks.	ton : 100.00
200lb bgs, wks.	ton 90.00 : 100.00
Import, bbls. spot	ton 90.00 : 95.00
Dioxide, 750lb drs.	lb .18 : .20
Import, 500lb drs.	lb .18
Hydrate, 500lb bbls	lb .05 : .06
Iodide, 5lb bot.	lb .50
Nitrate, 700lb cans	lb .09% : .10
Import, cans	lb .08%
Sulfocyanide 400lb bbls	lb .35
Sulfates, floated 350lb bbls	ton 33.50 : 35.00
Bay Rum, Porto Rican, genuine	
Denat. salicy acid or tarter emetic	
45 gal. bbls.	gal 3.10 : 3.25
Denat. quinine sulf. 45 gal.	
bbls.	gal 3.40 : 3.50
Domestic synthetic, 50 gal.	
bbls.	gal 1.25 : 1.35
Benzaldehyde, tech. 945lb drs.	
wks.	lb .55
USP, 25lb cans	lb 1.75
FFC, 25lb cans	lb 2.50
BENZENE, 90% 8000 gal. tanks	
110 gal. drs. wks.	lb .27
CF Tanks, wks.	lb .32
110 gal. drs. wks.	lb .30
110 gal. drs. wks.	lb .35
Benzidine Base, dry 250lb bbls.	
lb .87	
Benzidine Sulfate, paste 350lb bbls.	
lb .70 : .72	
Benzol, see Benzene	
Benzonaphthalin, 5lb boxes	lb 2.00 : 2.10
Benzoyl Chloride, 100lb drs.	lb 1.00
Benzyl Acetate, 100lb drs.	
Alcohol, 5lb bot.	lb 1.25 : 1.50
Benzoate, 5lb bot.	lb 1.40 : 1.60
Medicinal FFC	lb 1.60 : 1.80
Chloride, 95% tech. 925lb drs.	lb .20 : .22
100lb chys.	lb .25
Redistill, 100lb chys.	lb .35
Formate, 1lb bot.	
lb 2.50 : 3.00	
Berberine Hydrochloride, 1lb bot.	lb .23
Sulfate, acid or neut. 1lb bot.	lb 21.00 : 23.00
Sublimed	lb .24
Ton lots, wks.	lb .23
Sublimed	lb .50 : .55
BETA-NAPHTHOL, 350lb bbls, wks.	
lb .95 : 1.00	
Sublimed, 200lb bbls.	lb .95 : 1.50
Bichloride Mercury, see Mercury Bichloride	
BISMUTH, metal, 150lb cases.	
Ammon. Citrate, USP 5lb cans	lb 2.60 : 2.70
Batanaphthalone, 5lb cans	lb 5.45
Citrate, USP 5lb cans	lb 3.10
Nitrate, 25lb jars	lb 2.75
Oxychloride, 250bbls	lb 1.70
Phenolsulfonate, 5lb cans	lb 3.12
Salicylate, 250bbls	lb 2.90
Subbenzoate, 5lb boxes	lb 1.85
Subcarbonate, USP 250bbls	lb 3.08
X-Ray diag. 1lb bot.	lb 3.35
Subgallate, USP 175bbls	lb 2.61
Subiodide, 5lb lots	lb 4.43
Bismuth—(continued)	
Subnitrate, USP 250bbls	lb .265
Second Hands, bbls. or less.	lb 2.45 : 2.50
Cones, 1lb bot.	lb 3.65
Subsalicylate, USP 175bbls	lb 2.78
Tannate 1lb bot.	lb 2.50
Bismuth Preparations quoted above on basis 25lb bbls.	
Smaller lots at an advance.	
Blanc Fixe, dry 400lb bbls.	
wks.	ton 80.00 : 85.00
Imported, bbls.	ton :
Paste, 650lb bbls.	ton 40.00
BLEACHING POWDER, 700lb drs.	
c/l wks.	lb 2.00
Drums, 1c/l ex-warehouse.	lb 2.25
Contract, c/l wks.	lb 2.00
F. a. c/l.	lb 2.00
Imported, spot	lb :
Blue Ointment, see Mercury	
Mass, see Mercury	
Bone Ash, 100lb kgs.	lb .16
Black, 200lb bbls	lb .06 : .08
Borax, USP cryst. 400lb bbls.	lb .05% : .06
Powdered, USP 300lb bbls.	lb .05% : .06
Kegs, USP 100-150lb	lb .06 : .06%
Borneol, 1lb bot.	lb 3.50
Bromide, see potash bromide, etc.	
Bromine, bot. in 60lb cs. wks.	lb .29
Bromobenzene, 600lb drums	lb .40 : .42
Bromoform, USP 5lb bot 50lb cs.	lb 1.50
Bromostyrol, 25lb kgs.	lb 3.50 : 4.00
Brucine Sulfate, 1 oz. vls. 100 oz. oz.	lb .20 : .25
Butter of Antimony, see Antimony Chloride	
CADMIUM, metal 100lb bxs.	
Bromide, 50lb cases	lb .130
Iodide, 10lb bot.	lb .95
CAFFEINE ALK. USP 5lb cans.	
Second Hands	lb 3.75
Hydrochloride, 1lb bot.	lb 4.25
Sulfate, 1lb bot.	lb 8.75
Citrated, 25lb cans.	lb 7.12
Hydrobromide, 1lb bot.	lb 7.32
Hydrochloride, 1lb bot.	lb 5.52
CALCIUM ACETATE, 150lb bgs, e/l	
wks.	lb 3.00
Arsenite, 100lb bbls.	lb .13 : .14
Bbls. 1c/l wks.	lb .12 : .14
Bromide, 100lb cs.	lb .45

FOR more than ten years we have manufactured a special grade of Soda Ash known as

Wyandotte Fluffy Soda Ash

It is lighter in weight than our regular product with quality and test unimpaired. It is preferred where volume is more desirable than weight.

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Sole Selling Agents

EDWARD HILL'S SON & CO.

21 East 40th Street, New York

Chemicals

Calcium Carbide, 220 lb dr c/lwks lb	... : .04%	Carbon Bisulfide, 500 lb dr. NY..lb	.06 : .06%	Chromium Acetate, 20° soln. 400 lb bbls.	.08 : .10
Drums ic/l wks.....lb	... : .05	Ton Lots, drs. NY.....lb	.06 : .06%	Fluoride, Powd. 400 lb bbls.....lb	... : .50
Carbonate, tech. 100 lb bags c/l .....ton	1.00 : 1.10	Carbon Black, 12½ lb bags, 150- 225 lb cases.....lb	.18 : .35	Sulfate, 400 lb bbls.....lb	.07 : .09
USP, precip. 175 lb bbls..lb	... : .04	Carbon Tetrachloride, 1400 lb drs. NY .....	... : .10	Chrysarobin, USP 5 lb cans...lb	2.00 : 2.20
Chloride, solid, 650 lb drs. c/l f o b NY.....ton	... : 24.50	Drums, c/l NY.....lb	.08½ : .09	Cinchonidin alk., pwd. 100 oz tins or Crystal .....	.70 : .75
Gran. 350 lb drs. c/l f o b NY .....	... : 30.50	Carmine, No. 40 5 lb boxes.....lb	4.40 : 4.50	Sulfate, 100 oz. tins.....oz	.50 : .50
Flake 330 lb drs. c/l drs. fab NY .....	... : 30.50	Casein, edib. 100 lb kegs.....lb	.45 : .50	Cinchonine, alk., pwd. 100 oz tins or Crystal .....	.38 : .43
Imp., solid 600 lb drs. spot ton	... : 20.50	Technical, 200 lb bbls.....lb	.15 : .18	Sulfate, 100 oz. tins.....oz	.35 : .35
Anhyd., 350 lb drs. fab NY..lb	.12 : .13	Castoreum, 1 lb boxes.....lb	4.00 : 4.50	Cinnamic Alcohol, see Alcohol Cinnamie	
Glycerophosphoric, 250 lb bbls..lb	1.55 : 1.60	Castor Oil, USP 50 gal. bbl.....lb	... : .13	Cinnamal Aldehyde, 1 lb bot...lb	3.75 : 4.00
Iodide, 5 lb bot.....lb	... : .42	Cases, 80 lb 2 tins.....lb	... : .14	Citral, 25 lb cans.....lb	3.00 : 3.50
Lactate, tech. 500 lb bbls..lb	... : .13½	Caustic Potash, see potash, caustic Soda, see soda, caustic		Citrine Ointment, see Mercury	
Nitrate, 220 lb bbls. c/l NY..ton	... : 40.00	Cerium Oxalate, USP 100 lb kgs..lb	.48 : .53	Citronellal, 1 lb bot.....lb	1.75 : 2.00
Phosphate, precip. 350 lb bbls..lb	.10 : .12	Chalk, drop 175 lb bbls.....lb	.08½ : .09½	Citronellol, 1 lb bot.....lb	8.00 : 10.00
Phosphate, precip. tribasic 350 lb bbls.....lb	.12 : .13	Precip. light 175 lb bbls.....lb	.04 : .05	Cobalt metal, 100 lb kgs.....lb	... : 3.00
Phosphate, mono.....lb	.06½ : .07½	Precip. heavy 550 lb cans.....lb	.03½ : .04	Cobalt Oxide, 500 lb bbls.....lb	... : 2.10
Sulfocarbonate, 100 lb kegs..lb	.58 : .60	Charcoal, Bone, see bone black Wood, powd. 100 lb bbl.....lb	.04 : .05	10 lb tins 200 lb cases.....lb	... : 2.35
Calomel, see Mercury		Willow, powd. 100 lb bbl.....lb	.06 : .07	COCAINE alk., USP 10 oz. tins or Hydrochloride, USP 25 oz tins	11.00 : 7.50
CAMPNOR, Amer. ref. 250 lb bbls.....lb	... : .90	Chloral Hydrate, USP 100 lb drs..lb	.70 : .75	In crystals, granular, powder, or flaky crystals as desired.	
1 lb cakes, 100 lb cs.....lb	... : .91½	25 lb jars .....	.71 : .76	Cocoa Butter, bulk 200 lb bales..lb	.35 : .38
1 oz. tab., 1 lb cans.....lb	... : .91½	Chiniodin, 170 lb cases.....lb	.65 : .75	Fingers, cakes, etc. 12 lb bxs..lb	.35 : .36½
100 lb cs.....lb	... : .95½	Chlorhydrin, Ethylene anhyd, 1000 lb dry.....lb	1.50 : 1.60	CODEIN alk., 5 oz. cans 10 oz lots	7.30 : 7.30
% oz. tab., 1 lb cans.....lb	... : .95½	40% soln. 100 lb drs.....lb	.30 : .35	Hydrobromide, 10 ozs.....oz	5.85 : 5.85
Jap. ref. 3½ lb slabs, 100 lb cs.....lb	... : .96	CHLORINE, Liquid 3000 lb cyl c/l wks.....lb	.05½ : .05%	Hydrochloride, 10 ozs.....oz	6.55 : 6.55
1 oz. tab. 100 lb cs. 1 lb tins .....	... : .86	Tank car lots wks.....lb	.05½ : .05%	Nitrate, 10 ozs.....oz	6.55 : 6.55
% oz. tab. 100 lb cs. 1 lb tins .....	... : .87	100 lb cyl c/l wks.....lb	.06½ : .07	Phosphate, 10 ozs.....oz	5.50 : 5.50
Chinese ref. 3½ lb slabs 100 lb cs.....lb	... : .98	Chlorobenzene, mona. 1000 lb drs. wks.....lb	.10 : .11	Salicylate, 10 ozs.....oz	5.50 : 5.50
Crude, 100 lb cs.....lb	.86 : .88	Dra. c/l wks.....lb	... : .09	Sulfate, 10 ozs.....oz	5.85 : 5.85
Camphor, Moonbrom, 100 lb cs.....lb	.72 : .75	Tank car lots wks.....lb	... : .08	Small Sizes, ½ oz vials, 50c extra, ¼ oz. 25c. extra, singles 7c extra per oz.—25 oz. lots, 10c oz. cheaper than above.	
Caramel, 50 gal. bbls.....gal	.60 : .63	CHLOROFORM, USP 50 lb drs..lb	... : .35	COD LIVER OIL, Norwegian, 30 gal bbls.....bbl	22.00 : 24.00
Carbami, 250 lb bbls.....lb	.75 : .80	Second Hands, 650 lb drums.....lb	.32 : .33	Newfoundland, 30 gal. bbls..bbl	... : ...

QUININE

Sulphate and Minor Salts

Unexcelled in Uniformity of Quality
Brilliant Crystallization and Purity of Color

Cinchonine, Cinchonidine
Quinidine
and their Salts

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Represented by

R. W. GREEFF & CO., Inc.

78 FRONT ST., Cor. Old Slip, NEW YORK CITY



[NOVEMBER 1, 1922]

Chemicals

Cochicine alk., USP 1 oz. vis. oz	... : 30.00	Dinitrobenzene, 400 lb bbls...lb	.18 : .20	Ethyl—(continued)	
Salicylate, 1 oz. vials....oz	... : 45.00	Dinitrochlorobenzene, 400 lb bbls. lb	.20 : .22	Valerate, 5 lb bot....lb	... : 7.50
Collodion, USP 30 lb drums....lb	... : .22	Dinitronaphthalene, 350 lb bbls. lb	.30 : .33	Ethyleno Bromide, drs....lb	... : .60
Flexible, USP 30 lb drums....lb	... : .27	Dinitrophenol, 350 lb bbls. ....lb	.33 : .35	Glycol, 25 lb cans....lb	1.00 : 1.25
COPPER, metal electrolytic e/l		Dinitrotoluene, 300 lb bbls. ....lb	.20 : .22	Eucalyptol, 25 lb cans....lb	.80 : .85
NY 100 lb ... : 13.87%		Dionin, see Morphine, Ethyl		FERRIC CHLORIDE, tech. crys.	8.25 : 8.50
Lake, e/l NY 100 lb 14.00 : 14.12%		Diphenylamine, 250 lb bbls. ....lb	.52 : .54	475 lb bbls....lb	... : .07
Castine, e/l NY 100 lb ... : 13.50		Diphenyloxide, 500 lb drums....lb	.85 : .90	USP, crys. 100 lb kegs....lb	... : .09
Carbonate, 400 lb bbls....lb	... : .19	Dover's Powder, USP 5 lb tins....lb	... : 2.20	Tech. Sol'n 40° 140 lb chys. lb	... : .08 1/2
Cyanide, 100 lb drs....lb	.58 : .60	Duboisine Sulfate, 1 oz. vis. ....oz	... : 55.00	48°, 140 lb chys....lb	... : .08
Oxide, 1000 lb bbls....lb	.15% : .16	EARTH, Diatomaceous, see Kieselguhr		USP Sol'n 125 lb chys....lb	... : .06
Carrots, bbls. ....lb	.15 : .15 1/2	Emetine, alk., 15 gr. vis. ....oz	16.00 : 16.65	Ferrous Chloride, crys. tec.	
Sub-Acetate, verd. 440 lb bbls. lb	.35 : .37	Hydralide, USP 1 oz. vis. ....oz	15 gr. vials....oz	475 lb bbls....lb	.06 : .06 1/2
SULFATE, crys. 450 lb bbls. le/l		.75 : .80	Ferrous Sulfide, 900 lb bbls. 100 lb	4.00 : 4.25	
spot 100 lb 6.25 : 6.50		EPSON SALT, tech. 300 lb bbls.		Flake White, see lead, white	
Carrots, bbls. delivered 100 lb ... : 5.90		NY 100 lb	... : 2.25	Fluorpar, 95% 220 lb bags, ex	
Powdered, 350 lb bbls. le/l		Ebbs, e/l NY 100 lb	... : 2.10	dock ton	... : 25.00
spot 100 lb 6.90 : 7.25		100 lb bags, e/l NY 100 lb	... : 1.85	96% bags ton	33.50
Carrots, bbls. deliv. 100 lb ... : 6.75		Imp. 112 lb bags e/l		98% bags ton	35.00
Coppers, bulk, e/l wks. ....ton	18.00 : 21.00	NY 100 lb	... : 1.35	FORMALDEHYDE, USP 400 lb bbls.	
400 lb bbls. e/l wks. ....ton	... : 25.00	USP, 300 lb bbls. 10 bbls. 100 lb	2.75 : 2.90	c/l wks. ....lb	... : .13 1/2
200 lb bags, e/l wks. ....ton	... : 23.00	Carrots, bbls. 100 lb	2.35 : 2.50	Carboys, 100 lb 1/2 l. wks. ....lb	... : .14 1/2
Corn Syrup, 42 deg. 50 gal. bbls.		Imported, 300 lb bbls. 100 lb	2.25 : 2.50	Bbls. 400 lb 1/2 l. wks. ....lb	... : .13 1/2
bbls. ....100 lb 2.77 : 3.02		Ergotin, Bonjean, 1 lb jars....lb	9.50 : 10.00	Fuller's Earth, 200 lb bags, e/l	
43 deg. 50 gal. bbls. ....100 lb 2.82 : 3.07		Eserine, alk., 1 oz. vis. ....oz	... : 30.00	mines ton	15.00 : 17.00
Cresylvic Sublimate, see Mercury Hickloride		Salsify, USP 1 oz. vis. ....oz	... : 25.00	Imported, 230 lb bags NY .....ton	35.00 : 40.00
Cotton Soluble, 100 lb bbls. wet. lb	.46 : .42	Sulfate, USP, VIII, 1 oz. vis. ....oz	20.00 : 20.25	Fuel Oil, refined, 100 gal. drm. gal	2.50 : 3.00
Coumarin, 25 lb tins....lb	4.00 : 4.25	ETHER, USP 55 lb drums....lb	.13 : .15	Crude, 100 gal. drm. gal	... : 1.75
CREAM TARTAR, USP 300 lb		Anesthesia, 55 lb drums....lb	... : .16	G. SALT, paste 350 lb bbls. basis	
bbls. ....lb	... : .28%	USP, 1880 55 lb drums....lb	... : .38	100% .....lb	.85 : .70
Imp. powd. USP 224 lb bbls. lb	.25 : .26 1/2	Washed, 55 lb drums....lb	... : .30	Gelatin, USP silver bbl. 100 lb cs. lb	.80 : .90
Cresote Oil, 50 gal. drs. ....gal	.20 : .22	Motor, 1 lb cans .....lb	.26 : .27	Gold Label, 100 lb cans....lb	... : ...
Carbonate, 1 lb bot. 25 lb ...lb	1.60 : 1.70	Ether, Nitrous, 1 lb bot. ....lb	.92 : .95	Technical, 100 lb cs. ....lb	.60 : .65
Cresote Oil, 100 gal. drs. ....gal	.20 : .22	Ethyl Benzyl Aniline, 300 lb drs. lb	... : 1.30	Geranol, 50 lb cans....lb	2.25 : 3.00
Cresol, USP 400 lb bbls. ....lb	... : .18	Ethyl Acetate, 99% 50 gal. drs. gal	.95 : 1.05	Geranyl Acetate, 1 lb bot....lb	5.00 : 5.75
Cyanamide, bulk e/l wks. Annex unit	... : 2.35	85-90% Ether, 50 gal. drs. gal	... : .75	GLAUBER'S SALT, tech. 200 lb bags	
DIAMINOPHENOL, 100 lb kegs....lb	... : 3.75	Carrots, drums .....lb	... : .72	e/l wks. ....100 lb	1.10 : 1.25
Diamidines, 100 lb kegs....lb	4.50 : 4.80	Tank Cars .....lb	... : .70	350 lb bbls. e/l wks. ....100 lb	1.25 : 1.40
Dichlorobenzene, 1000 lb drs....lb	.06 : .07 1/2	Pure, 5 lb bot....gal	3.25 : 3.50	Bbls. 1c/l wks. ....100 lb	1.40 : 1.65
Diethylaniline, 850 lb drs....lb	.06 : .05	Benzoate, 5 lb bot....lb	1.50 : 1.75	Imported, bags, spot. ....100 lb	... : .85
Diethyl Phthalate, 25 lb cans....lb	.85 : .90	Bromide, 115 lb drs....lb	... : .40	USP, 300 lb bbls. Imp. sp. 100 lb	... : 1.40
Diethyl Sulfate, tech. 50 gal. drs....lb	.40 : .45	Butyrate, 5 lb bot....lb	1.40 : 1.75	UPC, 300 lb bbls. dom. sp. 100 lb	... : 1.75
CP drums .....lb	.50 : .55	Methyl Ketone, 50 gal. drms. lb	.10 : .12	Glucose, (Grape Sugar) dry, 100	
Digitalin, Pure, 1 oz. vis. ....oz	7.75 : 8.25	Morphine, see Morphine, Ethyl		bags, e/l NY .....100 lb	3.09 : 3.19
Dimethylamine, 840 lb drs. wks. lb	.34 : .36	Chloride, 15 lb cyl....lb	... : .50	Syrup, Drs. & bbls. e/l NY 100 lb	2.77 : 3.02
Dimethylsulfate, 116 lb drs....lb	... : .96	Cinnamate, 1 lb bot....lb	5.00 : 5.50	le/l NY .....100 lb	... : 3.12
		Formate, 5 lb bot....lb	1.00 : 1.10		



ACETATES

ETHYL: AMYL: BUTYL

The Miner Edgar Company
Rail and Water Facilities
110 William Street
New York

Chemicals

GLYCERIN, C. P. 550 lb drums. lb	... : .18%
Cans, 50 lb	.19 : .20
Dynamite, 1000 lb drs.	... : .17%
Saponification, tanks	... : .13%
Soap, Lye, tanks	... : .11% : .12
Goo Powder, see chrysarobin	
Graphite, crude 220 lb bags	ton 15.00 : 35.00
Flake, 500 lb bbls.	... : .06 : .09
Guaiacol Liquid, USP 25 lb cans. lb	2.50 : 2.60
Benzoin, 1 lb bot.	... : 18.00
Carbonate, 5 lb boxes	3.50 : 3.75
WAARLEM OIL, Dom. 6 gr. ex. gross	... : 3.50
Imported, 6 gr. cans	5.25 : 5.35
Heliotropin, 10 lb bot.	2.75 : 3.25
Hexamethylenetetramine, USP	
100 lb drums	... : .95 : .97%
Rubber Makers, Impalp. Pd.	
drs.	.90 : .92
Second Hands, USP	... : .84
Homatropine Hydrobrom. USP 1 oz.	
vls.	... : 17.00 : 18.00
Hydrastine Alk., USP 5 oz. %s	
vls.	... : 19.50 : 20.00
Hydchloride, USP 5 oz. %s vls.	19.50 : 20.00
Sulfate, 5 oz. %s vls.	... : 22.00
Hydrastinine Hydrochloride, USP 15 gr.	
vls.	... : 60.00
Hydrobenzene, 100 lb kegs.	lb 1.30 : 1.35
HYDROGEN PEROXIDE, 25 vol. 400 lb	
bbls.	... : .10
USP Soln. 375 lb bbls.	... : .05 : .05%
USP bot. 4 oz. cases	gross 7.50 : 7.75
Bot. 8 oz. cases	gross 11.00 : 11.25
Bot. 16 oz. cases	gross 18.50 : 18.75
Hydroquinone, 100 lb kegs.	lb 1.10 : 1.15
Hyoscine Hydrobrom. USP 1 oz.	
vls.	... : 20.50 : 21.00
Hyoscamine Alk. Cryst. 1 oz. vls. os	... : 35.00
Alkaloid, Amorphous, 1 oz. vls. os	... : 75.00
Hydrobromide, USP 1 oz. vls. os	... : 30.00
Sulfate, 1 oz. vials.	... : 35.00
INDOL, C. P. 1 oz. bot.	... : 10.00 : 11.00
Iodides, see Potass. Iodide, etc.	
IODINE, crude, 200 lb kags.	lb 3.90 : 3.95
Resublimed, 10 lb jars	... : 4.40
Tincture, USP 50 gal. bbls. gal	4.25 : 4.30
Iodoform, powd. 10 lb bot.	... : 5.35
Crystals, 10 lb bot.	... : 6.25
Ionone, (violet) 1 lb bot.	5.50 : 8.00
Iridium, metal 100x lots	... : 350.00
Iron, metal by hydrogen 1 lb bot.	lb .65 : .70
IRON & AMM. CITRATE, USP 25 lb	
cans	... : .84
Green scales, 25 lb cans	... : .84
Cacodylate, 10 lb bot.	lb 6.00 : 6.25
Citrate, USP VIII 25 lb cans.	lb .99
Chloride, see ferric or ferrous	
Hypophosphite, 5 lb cans.	lb 1.50 : 1.60
Syrup, USP VIII	... : .30
Iodide, 1 lb bot.	... : 3.80
Syrup, USP 5 lb bot.	lb .33 : .34
Oxalate, scales 25 lb cans.	lb .80 : .82
& Ammon. Oxalate, 25 lb bxs. lb	.45 : .50
& Potassium Oxalate, 25 lb bxs. lb	.47 : .48
& Sodium Oxalate, 25 lb bxs. lb	.40 : .42
Phosphate, USP 25 lb cans.	lb ... : .89
Pyrophosphate, USP 25 lb	cans
Iso-Eugenol, 1 lb bot.	lb .90 : .97
JALAP RESIN, lump 5 lb tins.	lb 3.10 : 3.35
Powd., tins	lb 3.25 : 3.45
KIESELGUHR, 90 lb bags NY	ton 35.00 : 40.00
LANGOLIN, see Adeps Lanae	
LEAD, metal, c/l NY.	100 lb ... : 6.50
Acetate, white crystals 500 lb	
bbls. wks.	... : 11.1%
100 to 250 lb kgs. wks. lb	... : .12
White, broken, bbls. wks. lb	.11 : .11%
White, gran., bbls. wks. lb	.11% : .11%
White, powd., bbls. wks. lb	... : .12%
Kegs, wks.	... : .12%
Brown, broken, bbls. wks. lb	.10% : .10%
USP, 100 lb kegs. lb	.15 : .17
Lead—(continued)	
Arsenate, 100 lb bbls. c/l wks. lb	.15 : .26
Bbls. c/l wks.	... : .15
Paste, 600 lb bbls.	... : ..
Iodide, USP VIII 5 lb bot.	lb 3.00 : 3.20
Nitrate, 500 lb bbls. wks.	... : .33
Oxide, lithg. 500 lb bbls. wks. lb	... : .09%
100 lb kegs. wks.	... : .12%
Oxide, red 500 lb bbls. wks. lb	... : .09%
100 lb kegs. wks.	... : .12%
Peroxide, 100 lb drs.	... : .35
White, basic carb. 500 lb bbls.	wks.
Bbls. c/l wks.	... : .08 : .08%
100 lb kegs. wks.	... : .12%
White, sulfate 500 lb bbls. wks. lb	... : .07%
Bbls. c/l wks.	... : .628
100 lb kegs. wks.	... : .12%
LIME, Salts, see Calcium Salts	
Hydrate, 200 lb bbls.	... : 100 lb : .75
Sulfur, dry 200 lb drs. NY	lb .11 : .13
Drs. c/l NY.	... : .10%
38° Sohn 50 gal bbls. NY. gal	... : ..
Linalool, 5 lb bot.	lb 4.50 : 5.50
Linalyl Acetate, 1 lb bot.	lb 8.00 : 9.00
Benzoate, 1 lb bot.	lb 13.00 : 14.00
Litharge, see lead oxide	
Lithium Carb. USP 100 lb kgs.	lb 1.50 : 1.60
Bromide, 100 lb	... : 1.70 : 1.80
Citrate, USP 100 lb kegs.	lb 1.60 : 1.70
Lithopone, 400 lb bbls. c/l wks. lb	... : .68
Bbls. c/l wks.	... : .05% : .08%
Imported, bbls.	... : ..
MAGNESITE, crude	ton : 15.00
Calcined, 500 lb bbls.	ton : 55.00
Magnesium mtl., sticks 100 lb	lb ... : 1.25
Carb. tech. 70 lb bags NY	lb ... : .07%
75 lb bbls. NY.	... : .08% : .09
USP, 60 lb phis.	lb .11 : .12
USP, blocks 100 lb c. 1, 2, 4	... : ..
cm.	lb .25 : .29
Chloride, fused 575 lb drs. c/l	wks.
... : ton	... : 32.00
Flaked, 350 lb drs. wks.	... : ton : 34.00
Imp., fused 900 lb bbls. NY. ton	26.00 : 28.00

Continued Insistence

for

R & H
CHEMICALS

by most prominent consumers
is in itself a mute tribute to
R & H policies.

ZINC CHLORIDE

Granular and Fused

THE ROESSLER & HASSLACHER CHEMICAL CO.

709 Sixth Ave., New York



{NOVEMBER 1, 1922}

Chemicals

Magnesium—(continued)	
Fluocarbonate, crystal	100 lb bbls.
wks.	.15 : 15%
30% soln. 500 lb bbls. wks	.07 : .08
Soda, bbls. c/l wks	.08
Glycerophosphate, 5 lb tins	.35
Hypophosphite, 5 lb cans	1.15
Oxide, USP light 100 lb bbls.	.45
USP, heavy 250 lb bbls.	.40
Peroxide, 5 lb cans	2.15
Perborate, 1 lb tins	2.25
Salicylate, 100 lb kegs	.67 : .73
Sulfite, see Epsom Salts	
Manganese Chloride, 600 lb csk.	
NY	.09% : .10%
Borate, 200 lb bbls.	.18
100 lb kegs	.19
Dioxide, 50-84% 900 lb bbls.	
NY	80.00 : 85.00
25-50%, 900 lb bbls. NY	85.00 : 90.00
Hydrated, precip 100 lb kegs	.32 : .35
Glycerophosphate, 5 lb tins	.35
Hypoiodine, USP VIII 5 lb cans	1.65
Iodide, 1 lb bot.	6.35
Ore, bulk NY	.30
Sulfite, 600 lb cans	.10 : .11
MENTHOL, USP 60 lb cases	.70
Lew cases, 5 lb tins	7.35 : 7.50
MERCURY, metal 75 lb flask, flask	71.00 : 72.00
- Less Flasks, 5 lb jugs	1.02 : 1.04
Chloride, cryst. 25 lb cans	1.10
Gran. powd. 200 lb kegs	.95
Bisulfate, 25 lb boxes	.76
Blw. Mass., 25 lb boxes	.62
Powdered, 25 lb boxes	.64
Bals. Ointment, USP 25 lb cans	
50% USP, direct 25 lb cans 30% bbls.	.80
33 1/3% Mercury	.62
Calomel, 50 lb bbls	1.15
Circline Ointment 25 lb jars	.50
Iodide, green 25 lb jars	3.66
Red, USP 25 lb jars	3.76
Yellow, USP VIII 25 lb jars	3.66
Mercury—(continued)	
Red Precip, USP 25 lb bxs	.128
Powder, USP 25 lb bxs	1.38
White Precip, USP 25 lb bxs	1.39
Powder, USP 25 lb bxs	1.44
Wtch. chalk, USP 25 lb bxs	.62
Meta-Nitroaniline, 300 lb bbls	.75
Meta-Nitro-para-Toluidine, 200 lb bbls	
Meta-Phenylenediamine, 300 lb bbls	2.25 : 2.30
Meta-Toluylenediamine, 300 lb bbls	1.00 : 1.10
Methyl Acetone, 100 gal. drums	.90 : .95
Tank cars	.70
Anthranilate, 1 lb bot.	.65
Chloride, 90 lb cyl.	.50
Cinnamal, 1 lb bot.	5.50 : 5.75
Paracresol, 1 lb bot.	8.00 : 9.00
Salicylate, USP 50 lb cases	.47
500 lb drums	.45
Second Hands, cases	.43 : .44
Methylene Blue, tech. 100 lb kegs	1.75 : 2.00
Michler's Ketone, 225 lb bbls	2.25 : 2.60
Milk, powd. 150 lb bbls	.14 : .15
Milk Sugar, sea sugar of mills	
Mineral Oil, see oil mineral	
Monochlorobenzene, see chlorobenzene	
Monothiylaniline, 900 lb drs.	1.00 : 1.05
MORPHINE Sulfate, USP 5 oz. tins	
10 oz.	
Acetate, 5 oz. tins 10 oz. lots	5.35
Hydrobromide, 5 oz. tins 10 oz.	5.35
lots	
Hydchloride, 5 oz. tins 10 oz.	5.35
lots	
Diacetyle Alk., 1/4 oz. vials	8.95
or	
Hydchloride, 1/4 oz. vials 10 oz. or	8.10
or	
Ethyl Hydchloride, 1/4 oz. vials 10 oz.	9.45
Small Sizes: 1/4 oz. vials, 50c extra;	
1/4 oz. 25c extra; single oz. vial, 7c extra;	
over price for 5 oz. tins, 25 oz.	
lots in 5 oz. tins, 10c oz. lower than	
above schedule.	
Musk Ambrette, 1 lb cans	12.00 : 14.00
Ketone, 1 lb cans	2.00 : 16.00
Xylene, 5 lb cans	2.35 : 2.75
NAPHTHA, Solvent, 110 gal. drs.	
wks.	.38
3000 gal. tank car wks.	.27
NAPHTHALENE, Flake, 175 lb bbls.	
wks.	.07% : .08
Bbls. c/l wks.	.07
Bbls. second hands NY	.06% : .07%
Balls, 250 lb bbls. wks.	.08% : .09
Bbls. c/l wks.	.08
Crushed, wks.	
Nerolin, 1 lb tins	2.00 : 2.50
Nickel Metal, electrolytic 100 lb	
kegs	.38
Shot, 100 lb kegs	.37
Salt, single, 400 lb bbls. NY	.07% : .08
Double, 400 lb bbls. NY	.08 : .09
Oxide, 100 lb kegs NY	.40 : .42
Nitre Cake, bulk wks.	
ton	.825
500 lb bbls.	
Nitrobenzene, crude 1000 lb drs.	
Wks.	.975
Bedistilled, 1000 lb drs. wks.	.09% : .10%
Ortho-Aminophenol, 500 lb bbls.	.10 : .11
Nitronaphthalene, 550 lb bbls.	.30 : .32
Nitrotoluene, mixed 1000 lb drs.	
Wks.	.14 : .16
Oil Fuel, see Fuel Oil	
GIL MINERAL, wh. 50 gal. bbls. gal	.75 : 1.25
Oil Mirbane, see nitrobenzene	
Opium, see crude drugs	
Orange Mineral, 800 lb casks NY	
500 lb bbls. NY	.14
Ortho-Aminophenol, 50 lb kegs	2.35 : 2.50
Ortho-Anisidine, 100 lb drs.	2.00 : 2.10
Ortho-Dichlorobenzene, 1000 lb drs.	
Wks.	.15 : .17
Ortho-Nitrochlorobenzene, 1200 lb	
drs. wks.	.82 : .85
Ortho-Nitrophenol, 350 lb bbls.	
Ortho-Nitrotoluene, 1000 lb drs.	
Wks.	.80 : .82
Ortho-Toluidine, 350 lb bbls.	
Oxgall, USP 5 lb bot.	
Wks.	.14 : .15

1816

CHEMICALS

1922

"Over a Century of Service and Progress"

Carbonate of Potash

Arsenic Acid
Caustic Soda

Prompt Shipments

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Industrial Chemicals

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WARNER

CHEMICALS

EST. 1886

ACETIC ANHYDRIDE

90-95%

(Free of Phosphorus, Chlorine and Sulphur)

ALUMINA HYDRATE LIGHT

96%

(For printing ink, varnish and oil-cloth manufacture)

CARBON DISULPHIDE

CARBON TETRACHLORIDE

SODIUM PHOSPHATE

Monobasic, Dibasic and Tribasic

THE WARNER

CHEMICAL COMPANY

Manufacturers

52 Vanderbilt Avenue, New York

Telephone Murray Hill 0262

Plants

Carteret, N. J.

South Charleston, W. Va.

Chemicals

PALLADIUM, metal 10 oz. lots or 51.00	: 53.00
Pancreatin, USP 5 lb bot.....lb	1.25 : 1.40
Papain, 1 lb bot.....lb	2.15 : 2.25
Paraffin, ref'd. 200 lb ea. slabs	
120-125 Deg. M. P.....lb	.03% : .03%
125-130 Deg. M. P.....lb	.04 : .04%
130-135 Deg. M. P.....lb	.04 : .04%
135-140 Deg. M. P.....lb	.05 : .05%
Para-Aminoacetanilid, 100 lb kegs	1.25 : 1.35
Para-Aminophenol, 100 lb kegs..lb	1.10 : 1.25
Hydrochloride, 100 lb kegs..lb	1.20 : 1.25
Para-Anisidine, 100 lb kgs....lb	3.00 : 3.25
Technical, kgs.....lb	1.65 : 1.75
Para-Dichlorobenzene, 270 lb bbls. wks.	.17 : .20
Paraldehyde, 100 gal drs....lb	.21 : .23
Parafomaldehyde, USP 100 lb cs..lb	.52% : .55
Para-Nitroacetanilid, 300 lb bbls.	.55 : .60
PARA-NITROANILINE, 300 lb bbls. wks.	.73 : .78
Para-Nitrochlorobenzene, 1200 lb drs. wks.	.25 : .27
Para-Nitro-ortho-Toluidine, 300 lb bbls.	2.75 : 2.85
Para-Nitrophenol, 185 lb bbls...lb	.72 : .75
Para-Nitrosodimethylaniline, 120 lb bbls.	... : ...
Para-Nitrotoluene, 350 lb bbls..lb	.60 : .75
Para-oxy-Benzaldehyde, 100 lb kegs	1.50 : 1.60
Para-Phenetidin, 500 lb drs....lb	1.35 : 1.40
Para-Phenylenediamine, 350 lb bbls.	1.50 : 1.60
Para-Toluene-Sulfonamide, 175 lb bbls.	.40 : .42
Para-Toluene-Sulfonchloride, 410 lb bbls. wks.	.11 : .14
Para-Toluidine, 350 lb bbls. wks..lb	.95 : 1.10
Paris Green, 500 lb kegs..lb	.20 : .21
1 lb Packages	.27 : .28
Paris White, see whiting, French	
Pepsin, USP 5 lb bot.....lb	2.25 : 2.50
PETROLATUM, green 300 lb bbls..lb	.02% : .03
Dark Amber, 300 lb bbls...lb	.04 : .04%
Light Amber, 300 lb bbls...lb	.04% : .05
Cream White, USP 300 lb bbls..lb	.07 : .07%
Lily White, USP 300 lb bbls..lb	.09 : .09%
Snow White, USP 300 lb bbls..lb	.12 : .12%
PHENOL, see also acid carbolic	
Open market, 950 lb drs. ....lb	.29 : .30
475 lb drs. ....lb	... : ...
Natural 240 lb des. drs. wks..lb	.22 : .26
Phenolphthalein, USP 100 lb drs..lb	1.40 : 1.50
5 lb cans, 100 lb lots....lb	1.45 : 1.55
Phenylacetaldehyde, 1 lb bot....lb	7.50 : 9.00
Phenylacetic Acid, 1 lb bot....lb	3.00 : 4.00
Phenyl-Alpha-Naphthylamine 100 lb kegs : ...
Phenylethylalcohol, 1 lb bot....lb	6.00 : 8.00
Phosgene, cylinder wks.....lb	.60 : .65
Phosphorus Oxychloride, 175 lb cyl..lb	.30 : .35
Phosphorus, red 110 lb cs. wks..lb	... : .50
Imported, 112 lb cases.....lb	.25 : .27
Phosphorus Sesquioxide, 105 lb cs. wks. ....	... : .42%
Phosphorus, yellow 110 lb cs. wks..lb	.25 : .35
Imported, 112 lb cases.....lb	... : .28
Phosphorus Trichloride, 175 lb cyl wks. ....	.30 : .35
Pilocarpine Hydrochloride, USP 1 oz. vls. ....oz.	8.00 : 8.25
Nitrate, 1 oz. vls. 25 oz....oz	8.00 : 8.25
Alkaloid, 16 gr. vls. ....oz	... : .75
Phthalic Anhydride, 175 lb bbls..lb	.35 : .40
Piperazine Hydrate, 175 lb bot....lb	... : ...
Pitch, Coal-Tar wks.....ton	30.00 : 35.00
Plaster Paris, tech. 230 lb True Dental, bbls.....bbl	4.25 : 4.40
Platinum, metal soft 10 oz. lots...oz	4.35 : 4.50
Platinum, metal soft 10 oz. lots...oz	: 108.00
Podophyllin, 5 lb bot.....lb	4.25 : 4.50
POTASH, CAUSTIC, solid 88-92% 700 lb drs. wks.....lb	.09 : .10
Dra. e/l wks.....lb	... : .08
Imp. 88-92% 700 lb drs. NY..lb	.08% : .06%
USP, by alcohol 5 lb cans..lb	.46 : .48
cases .....	.30 : .35
POTASSIUM Acetate, USP 100 lb kegs .....	.28 : .29
Bicarbonate, crys. 220 lb bbls..lb	.08 : .09
Bichromate, crys. 900 lb cans wks. ....	.10 : .11
Powd. 900 lb cans wks..lb	.13 : .13%
Bindinate, 300 lb bbls.....lb	.34 : .38
Bisulfite, C.P. 5 lb cans.....lb	... : .39
100 lb kegs .....	.32 : .33
Bromate, 100 lb cs. ....	.45 : .45
BROMIDE, USP cryst. 450 lb bbls. ....	... : .26
Granular, 300 lb bbls..lb	... : .26
Cases, 100 lb .....	... : .27
Imported, USP 220 lb cs....lb	.17 : .19
Cases, 112 lb .....	.18 : .20
CARBONATE, 30-85% calc. 800 lb cks. ....lb	.05% : .06
80-85%, hydrated, 800 lb. cks. ....	... : .07
90-95% cans .....	.06% : .07
96-98% cans .....	.07 : .07%
99% cans .....	.08% : .08%
USP, 100 lb. kegs. ....	.10 : .11
Chlorate, crys. 112 lb kgs. NY..lb	... : .09
Imp. 112 lb kegs NY..lb	... : .07%
Powd., 112 lb kegs NY..lb	.07% : .08
Imp. kegs NY.....lb	.07 : .07%
Pyrotechnic, fine powd. NY..lb	... : .09
USP, fine crys. 110 lb kegs NY .....	.08 : .09
Plaster, USP 10 lb cans....lb	.63 : .66
Citrate, USP 10 lb cans....lb	... : ...
Glycerophosphate, 75% Soln. 25 lb tins	1.65 : 1.70

DU PONT**DIPHENYLAMINE**

IT IS comparatively easy to manufacture artificial dyestuffs of uniform excellence when the intermediates used conform to the highest commercial standards.

Consumers of DuPont Diphenylamine never start their color manufacturing processes under a handicap because they use the highest grade of material produced.

E. I. DU PONT DE NEMOURS & CO., Inc.

Dyestuffs Department

WILMINGTON DELAWARE

8 Thomas St., New York

THE *Selden* BRAND**PHTHALIC ANHYDRIDE**

Pure Needle Crystals

MADE BY AIR OXIDATION PROCESS

HIGHEST DEGREE OF PURITY

NO VARIATION IN QUALITY

The Selden Co.

PITTSBURGH, PENN., U. S. A.

Specifications on Request

[NOVEMBER 1, 1922]

Chemicals

Potassium—(continued)	
Guaiacol Sulfonate, 5 lb cans,	
10 lb	.150 : .75
Hypophosphite, 10 lb cans...	.85
Iodide, USP, 100 lb cases...	3.45 : 2.50
Second Hand	.340
Lactophosphate, 4oz bot...	.90
Metabisulfite, 300 lb bbls...	.23
Imp.	.14 : .15
Muriate, 80%, 200 lb bags, NY	
K ₂ O unit	.70
Nitrate, see Saltpepper	
Oxalate, neutral, 100 lb kegs...	.40 : .45
Perchlorate, 112 lb kegs...	.12 : .14
Permangan, USP crys, 112 lb drs, lb	16½ : .17
USP small cry, 112 lb drs...	16½ : .17
Prussiate, red, 350 lb bbls...	.85 : .90
500 lb cans	.85
Prussiate, yellow, 500 lb cans...	.37 : .38
Salicylate, 25 lb cans...	.65 : .67
Sulfate, 200 lb bags, NY K ₂ O unit	.95
USP, VIII, 100 lb kegs...	.18 : .20
Sulfocyanide, OP 25 lb jars...	.70
Tartrate, neutral, 25 lb cans...	.60
Titanium Oxalate, 200 lb bbls,	
freight allowed	.35
Pumice Stone, lump, 250 lb bbls, lb	.04 : .06
Powdered, 350 lb bbls...	.02½ : .03½
Pyridine, 5gal drums...	1.50 : 1.75
QUICKSILVER, see Mercury	
Quinidine Alk., 100oz tins...	.70 : .75
Sulfate, 100oz tins...	.50
QUININE SULFATE, USP,	
American, 100oz tins...	.50
1oz tins, 100oz lots...	.57
Dutch, 100oz tins...	.50
Java, 100oz tins...	.50
Japanese, 100oz tins...	.50
QUININE ALK., USP, 100oz tins...	
Acetate	.67
Arsenate	.88
Benzoate	.88
Bisulfate, USP	.50
Citrate	.62
Dihydrochloride, USP	.66
Quinine—(continued)	
Dihydropromide	.66
Di碳酸, 10oz tins...	.250
Ethyl Carbonate, 16 oz tins...	.95
Ferrocyanide	.88
Formate	.85
Glycerophosphate	.88
Hydrobromide	.88
Hydrobromide, USP	.62
Hydrochloride, USP	.62
Hydrochlorofluoride	.66
Hydralide & Urea, USP	.88
Hypophosphite	.83
Lactate	.78
Phenolsulfonate	.88
Phosphate	.74
Salicylate, USP	.63
Tannate, USP	.45
Tartrate	.88
Valerate	.89
Small Sizes: 1oz vials or cans,	
50oz lots, 5oz extra; 50oz cans,	
50oz lots 3c on extra; 25oz cans	
50oz lots, 2c on extra; single 1oz	
vials or cans, 5c extra. All minor	
quinine salts sold and quoted basis	
100oz lots in 100oz cans. Sulfate	
and bisulfate sold basis 100oz	
lots in 100oz cans. Smaller orders	
or containers extra as above	
schedule.	
R SALT, 250 lb bbls wks...	
	.55 : .65
Red Lead, see lead oxide	
Red Precipitate, see mercury.	
Resorcin, see resorcinol.	
Resorcinol tech. 100lb kegs...	1.50 : 1.55
USP, 25lb cans...	1.95 : 2.05
Rochelle Salt, USP, 225lb bbls...	.21
Imp. USP, 300lb bbls...	.19 : .21
Rosewater, triple, 5gal demis...	1.50 : 1.60
SACCHARIN, USP, 1lb cans, 25 lb	
	1.90 : 2.00
Soluble, USP, 1lb cans, 25lb lb	1.90 : 2.00
Safrol, 60lb cans	
	.55 : .60
Sal Ammoniac, see Ammon. Chloride	
Salicin, USP, 1lb cartons, 25lb lb	4.00 : 4.15
Salol, USP, 100lb drums...	.85 : .90
Salt, Common, see sodium chloride.	
Salt Cake, c/l f.o.b. wks....ton	
	.25 : 25.00
ALTPETRE, gran., 500lb bbls	
wks	.07½ : .08½
Bbls c/l wks	.06½ : .06%
Imported, 500lb bbls	.06½ : .06%
Santonin, USP, 1lb bot...	172.00 : 175.00
Powd. 1lb bot	173.50 : 176.50
Saponin, ex Quillaja, 5lb tins...	1.50 : 1.75
Schaeffer's Salt, 250lb bbls...	.60 : .65
copalamine, see hyoscine.	
Seldiltz Mixture, 225lb bbls...	.18
SILVER, metal, American.....	
Foreign	.99%
Colloidal, 16oz bot...	.68%
Nitrate, USP, 200oz bot...	.47 : .47%
Nucleinate, 16oz bot...	.32 : .37
Proteinate, 16oz bot...	.34 : .39
Soap, Castle, 40lb bx...	.20 : .25
Powd. USP, 250lb bbls...	.28 : .29
Green, USP, 150lb kegs...	.07½ : .08
Prices on soda alkalies are	
percentages and not N. Y. & L. test.	
SODA ASH, 58% light bags NY	
flat, ex-warehouse	.100lb
Contract, Basis 48% bags c/l	
wks	.100lb
Prompt and spot, Basis 48% bags	
c/l wks	.100lb
1.25 : 1.30	
Soda Ash, 58% dense, bags ex-	
warehouse, NY	.100lb
Contract, Basis 48% bags c/l	
wks	.100lb
1.25 : 1.30	
Pmpt. and spot, Basis 48% bags	
c/l wks	.100lb
1.30 : 1.35	

The Name Associated With "Roche" Fine Chemicals and Alkaloids of Rare Quality

Aconitine and Salts
Amidopyrine
Antipyrine
Apomorphine Hydrochloride
Arecoline Hydrobromide
Atropine and Salts
Berberine and Salts
Bruine and Salts
Caffeine and Salts
Cocaine and Salts
Codeine and Salts
Colchicine Alkaloid, U. S. P.
Colchicine Salicylate
Creosote, U. S. P.
Creosote Carbonate
Cumarin
Diacetylmorphine
Alkaloid and Hydrochloride
Digitalin Pure
Duboisine Sulphate
Emetine and Salts
Eserine and Salts
Guaiacol Liquid

We are the headquarters for
SANTONIN
Crystals - U.S.P. - Powder

Guaiacol Carbonate
Homatropine and Salts
Hydrastine and Salts
Hydrastinine Hydrochloride
Hyoscine Hydrobromide
Hyoscyamine and Salts
Morphine and Salts
Phenolphthalein
Pilocarpine and Salts
Potassium Guaiacol
Sulphonate "Alta" Brand
Salicin
Saponin Purified
Scarlet Red Medicinal
Genuine "Biebrich"
Silver Proteinate
Sodium Cacodylate
Sparteine Sulphate
Strophanthin
Strychnine and Salts
Theobromine and Salts
Veratrine and Salts
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

Chemicals

SODA, CAUSTIC, 76% solid, resale,	
NY flat 100 lb	3.50 : .80
Contract basis 60% c/l was	
100 lb ... : 2.50	
Pmt and spot, Basis 60%	
c/l wks 100 lb	2.57½ : 2.60
Contract 60% low grade c/l	
wks flat 100 lb	... : 2.65
Ground & flake, 76% pmpt and	
spot, wks c/l drs.... 100 lb	... : 3.72½
Contract, 76% drums, c/l wks	
flat 100 lb	... : 3.65
USP, stick, 10lb cans..... lb	.19 : .21
Pure, stick, by alcohol..... lb	.25 : .27
SODIUM ACETATE, crys 450lb bbls	
wks. lb	.08 : .08½
Ton lots. bbls wks. lb	.07½ : .08
Aluminum Sulfate, see alum soda.	
Benzoate, USP, 250lb bbls... lb	.57 : .60
Bicarbonate, 400lb bbls... 100 lb	... : 2.15
Bbls c/l wks. 100 lb	... : 1.75
112lb kegs 100 lb	... : 2.00
112lb kegs, NY. 100 lb	... : 2.40
Bichromate, 600lb cases wks... lb	... : .07½
Casks, c/l wks. lb	... : .07½
Blusulfite, dry powder, 500lb	
bbls, wks. lb	.04 : .04½
Solution, 32-40%, 500lb bbls	
wks. 100 lb	1.15 : 1.80
Bromide, USP, Cryst 500lb bbls	
lb ... : .25	
Cases, 100lb ... : .26	
Imp. USP, 112lb cs. lb	.18 : .20
Cocodylate, USP, 5lb bot.	
25lb lb	4.50 : 4.60
Carbonate, sal soda, 350lb bbls	
lc/l wks 100 lb	1.30 : 1.35
Ton lots, wks. 100 lb	... : 1.25
USP monohyd, 100lb keg... lb	... : .05½
Pure photographic, 100lb	
keg lb	.08 : .09
Chlorate, 112lb kegs, wks... lb	.07 : .07½
Imported, 112lb kegs..... lb	.07 : .07½

Sodium—(continued)	
Chloride, tech 200lb bags. ton	12.00 : 15.00
C. P. 300lb bbls..... lb	.05 : .06
Citrate, USP, IX, 100lb kegs. lb	... : .62
USP, VIII, 100lb kegs. lb	... : .55
Cyanide, 96-98%, 100lb cases	
NY lb	.24 : .25
Ton lots, NY. lb	... : .23
73-76%, 100lb cases, NY lb	.22 : .23
Imp. 128%, 200lb cases	
120%, cases lb	.19 : .20
Fluoride, 350lb bbls, NY. lb	.09½ : .09½
Glycerophos, USP, crys 25lb	
cans lb	1.70 : 1.75
Powder, 25lb tins..... lb	1.75 : 1.80
Solution, USP, 25lb tins. lb	1.00 : 1.05
Hydrosulfite, 200lb bbls, fob. lb	.19 : .22
Hydroxide, see Soda Caustic	
Hypophosphite, USP, 25lb cans	
lb lb	... : .75
HYPOSULFITE, tech. pea crys.,	
375lb bbls. wks. 100 lb	3.60 : 3.85
Bbls c/l wks. 100 lb	... : 3.45
100lb kegs wks. 100 lb	3.95 : 4.25
Granulated, bbls. wks. 100 lb	3.85 : 4.05
Bbls. c/l wks. 100 lb	... : 3.95
Kegs wks. 100 lb	4.20 : 4.50
Regular crystals 25c per 100lb	
Futures, NY. 100 lb	3.00 : 3.25
Double Rehod, 400lb bbls	
wks. lb	.04½ : .04%
Nitrite, 500lb bbls wks. lb	... : .09½
Bbls spot, makers. lb	... : .10
1 up. 650lb cases. lb	.08½ : .09
Ortho-Chloro-para-Toluene Sul-	
fonate, 175lb bbls wks. lb	.25 : .27
Oxalate, neutral, 100lb kegs. lb	... : .47
Perborate, 275lb bbls. lb	... : .24
Imp. 220lb drs. lb	.19 : .20
Peroxide, 200lb cases. lb	.25 : .27
Sodium—(continued)	
Phosphate, di-sodium, tech 550lb	
bbls. lb	.03½ : .04½
USP, gran. 275 bbls. lb	.07 : .07½
Imp. gran. lb	.05½ : .06
USP, recrys 275 bbls. lb	.10 : .11
Mono-sodium 100lb kegs. lb	.25 : .27
Tri-sodium, tech. 550lb bbls. lb	.04½ : .05
Picramate, 100lb kegs. lb	... : .60
Para-Toluene Sulfonate, 175lb	
bbls. lb	.08 : .09
PRUSSIATE, yellow, 450lb csks. lb	.22½ : .22½
Pyrophosphate, 100lb kegs. lb	... : .14
Salicylate, 100lb kegs. lb	.42 : .44
Second Hands, USP, kegs. lb	.41 : .42
Silicate, 60° bbls wks. 100 lb	2.00 : 2.10
600lb drs wks. 100 lb	.95 : 1.20
Silicofluoride, 450lb bbls NY. lb	.07½ : .08
Sulfinate, see Glauber's Salt.	
Sulfide, 60% solid, 650lb drs	
wks. lb	.05 : .05½
Drs. c/l wks. lb	... : .08½
Imp. 700lb drs NY. lb	... : .04
60% broken, 650lb drs wks. lb	.05 : .05½
Imp. 500lb drs NY. lb	... : .04
30% crys, 400lb bbls wks. lb	.02½ : .03
Sulfite, crys, 400lb bbls wks. lb	.03½ : .03½
Desiccated, 400lb bbls. lb	.09½ : .10
Sulfocarbolate, USP, 100lb	
kegs. lb	.38 : .40
Sulfocyanine, 400lb bbls. lb	.45 : .47
Tungstate, crys 100lb kegs. lb	... : .55
Desiccated, kegs. lb	... : .65
Solvent Naphtha, see Naphtha.	
Spartein Sulfate, USP, 25oz bulk. oz	.50 : .55
Starch, rice, 140lb bags. lb	.06 : .08
STRONTIUM Bromide, USP, 100lb	
kegs. lb	... : .33
Carb. 600lb bbls. wks. lb	... : .07
100lb kegs wks. lb	... : .08
Iodide, USP, 25lb jars. lb	... : 3.70
Nitrate, 600lb bbls. wks. lb	.11 : .11½
Imp. bbls. NY. lb	.08½ : .10
Salicylate, USP, 100lb kegs. lb	... : .65
100lb kegs wks. lb	.11½ : .12

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SODA ASH
CAUSTICIZED ASHCAUSTIC SODA
MODIFIED SODA

Chemicals

STYRECHININE	Alkaloid, USP, crys			
100oz tins	.05	... : 1.15		
Alk. powd.	USP	... : 1.05		
Acetate		1.05		
Glycerophosphate, USP		1.05		
Hydrobromide		1.05		
Hydrochloride		1.05		
Hypophosphite		1.15		
Nitrate, USP		1.05		
Phosphate		1.05		
Sulfate, USP, crys powd.	.05	... : .84		
Saccharinates		2.15		
Stycheinine preparations quoted bases				
100oz lots in 100oz tins, Small Sizes;				
2½ oz vials, 50¢ extra; ¼ oz vials, 25¢				
extra; single ounce vials, 7¢ extra.				
Sugar Milk, USP, 200lb bbls	... lb	.19 : .20		
Second Hands, USP, bbls	... lb	.19 : .20		
Sulfonal, see Sulfonmethane.				
Sulfomethane, USP, 5lb bxs	lb	... : 4.25		
Sulfomethylmethane, USP, bxs, 5lb	lb	... : 5.25		
SULFUR, crude, bulk, c/l NY, ton		18.00		
Brimstone, 250lb bags, c/l 100lb		... : 1.75		
Less c/l bags NY	100lb	1.85 : 2.10		
Roll, 500lb bbls c/l NY	100lb	... : 2.15		
Less c/l bags NY	100lb	2.35 : 2.60		
Flour, Heavy, 200lb bbls, 100lb		2.50 : 3.05		
Light, 100%, 200lb bbls, 100lb		2.60 : 3.15		
Submermakers 100%, 24lb bbls NY	100lb	2.50 : 3.15		
Commercial, 99%, 150lb bags NY	100lb	1.35 : 1.65		
For Dusting, 99%, 100lb bags NY	100lb	2.00 : 2.50		
Flowers, 100%, 240lb bbls NY	100lb	3.00 : 3.55		
Precipitated, 125lb bbls NY	100lb	1.18 : .19		
Lac, 125lb bbls NY	100lb	1.10 : .11		
Sulfur Chloride, red, 700lb drs wks		... : .05%		
150lb crys wks		... : .06		
Yellow, 700lb crys wks		... : .05		
150lb crys wks		... : .05%		
Sulfur Dioxide, 100lb cyl.	lb	.08 : .08%		
Sulfuric Ether, see Ether.				
Sulfuryl Chloride, 600lb drs	lb	... : .70		
TALC, Italian, 220lb bags NY ton	ton	30.00 : 40.00		
French, 220lb bags NY	ton	20.00 : 30.00		
Dom, crude, 100lb bags NY ton	ton	15.00 : 18.00		
Refined, 100lb bags NY	ton	20.00 : 30.00		
Tartar Emetic, tech. 300lb bbls	lb	.27 : .28		
USP, 300lb bbls	lb	.34% : .35%		
Terpin Hydrate, USP, 100lb kegs	lb	.73 : .75		
Terpineol, CP, 1000lb drums	lb	.50 : .60		
Cans, 50lb	lb	.55 : .60		
Imported, cans, 25lb	lb	.70 : .75		
Terpenyl Acetate, 25lb cans	lb	1.75 : 2.00		
Terra Alba, 300lb bbls	lb	.02 : .02%		
Theobromine Alk., 5lb cans	lb	5.50 : 5.75		
Thiocarbonilid, 170lb bbls	lb	.35 : .37		
Thymol, USP, 10lb cans	lb	4.15 : 4.25		
Iodide, 5lb boxes	lb	6.75 : 7.00		
TIN, Metal Straits, NY	100lb	... : 35.25		
American standard, NY	100lb	... : ...		
99% American, NY	100lb	... : ...		
C.P. mossy, 25lb bxs NY	lb	... : .91		
Bichloride, 50% soln	100lb			
bbls wks	lb	10% : .10%		
Crystals, 500lb bbls	wks	lb	... : .39%	
100lb kegs wks	lb	... : .30		
Oxide, 400lb bbls	wks	lb	... : .38	
100lb kegs wks	lb	... : .39		
Tetrachloride, 1000lb drs wks	lb	.21% : .22		
Toluidine, 350lb bbls	lb	1.15 : 1.20		
Sulfate, 350lb bbls	lb	... : 1.00		
Toluene, 800gal tank cars, wks	gal	... : .30		
110gal drs wks	gal	... : .35		
Toluidine, Mixed, 900lb drs wks	lb	.30 : .32		
Tri bromophenol, 100lb cases	lb	... : .85		
Trional, see Sulfonemethane.				
Triphenyl Phosphate, 450lb bbls	lb	... : .45		
Trippoli, 500lb bbls	... 100lb	... : \$1.00		
Tungsten, NY	Wt. unit	7.00 : 7.50		
UREA, pharm 112lb cases	lb	... : .40		
VANILLIN, USP, 400oz cans	.05	.43 : .45		
Cans, 80 ozs		... : .45		
Cans, 16oz		... : .46		
Second Hands, cans		.43 : .47		
Vermillon, Amer. 100lb kegs	lb	... : .30		
English, kegs	lb	... : .90		
Veratrine Sulfate, 1oz vials	.05	2.50 : 2.50		
Hydrochloride, 1oz vials	.05	... : 2.50		
WHITE LEAD, see lead, white.				
White Precipitate, see mercury.				
Whiting, 200lb bags, c/l wks	ton	... : 18.00		
Bags, 1/c1 wks	ton	... : 23.00		
French, bags, NY	ton	... : 14.00		
English, bags, NY	ton	... : 23.00		
Witch Hazel Extract, 50gal bbls	gal	1.20 : 1.25		
XYLENE, 2° dist range, nitration				
tks wks	gal	... : .45		
110gal drs wks	gal	... : .50		
5° dist range, 3000gal tanks	wks	... : .40		
110gal drs wks	gal	... : .45		
Xyloidine, 900lb drs	lb	.42 : .43		
YARA YARA, 1lb tins	lb	2.00 : 2.50		
Yohimbine Hydrochloride, 1oz vials	ton	11.00 : 11.50		
ZINC, METAL, high grade, slabs				
c/l NY	100lb	... : 8.00		
Common Slabs, c/l NY	100lb	7.10 : 7.40		
Mossy, 25lb bxs NY	lb	... : .14		
Ammonium Chloride, soln, 400lb	bbls			
Carb. tech. 150lb kegs	NY	... : ...		
USP, 100lb kegs	lb	... : .30		
Chloride, fused, 600lb drs wks	lb	... : .07		
Drs, c/l wks	lb	... : .05%		
Imp. drs NY	lb	... : .06		
Granulated, 500lb bbls wks	lb	... : .08		
Imported, drs NY	lb	... : .06		
USP, 25lb jars	lb	... : .20		
Cyanide, 100lb drs	lb	.42 : .43		
Dust, 100lb tins wks	lb	.09 : .11		
500lb bbls, kegs, 1/c1 wks	lb	.09% : .09%		
500lb bbls, kegs, c/l wks	lb	.08 : .09		
Iodide, 5lb botts	lb	... : 4.50		
Nitrate, 25lb jars	lb	... : .35		
Oxide, Amer. 300lb bbls, wks	lb	.07% : .08		
Bbbs c/l wks	lb	... : .07		
French, 300lb bbls wks	lb	.09% : .11%		
Bbl c/l wks	lb	... : .08%		
USP, 100lb bbls	lb	.15 : .17		
Stearate, USP, 60lb bbls	lb	.19% : .21		
Sulfate, 400lb bbls wks	lb	.08% : .09%		
Bbls c/l wks	lb	... : .02%		
USP, 100lb kegs	lb	... : .09		
Sulfocarbonate, 100lb kegs	lb	.33 : .35		

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Oils and Fertilizers

Oils

Castor, No. 1	400 bbls.	lb.	.12%	: .13
80 lb cases	lb.	..	: .14
No. 3, bbls.	lb.	.12	: .12
China Wood, 375 lb bbls.	.....	lb.	.12%	: .12
Coast, 8000 gal. tins	.....	lb.	.11%	: .11
Orient to N. Y. bbls.	.....	lb.	.13	: .13
Orient to N. Y. tank cars	.....	lb.	.12	: .12
Cocnut Ceylon, 375 lb bbls. NY.	lb.	....	.08%	: .08
8000 gal. tanks NY.	lb.	....	.07%	: .07
Cochin, 375 lb bbls. NY.	lb.	....	.09%	: .09
Tanks, NY	.....	lb.	.08%	: .08
Manilla, tanks Coast	.....	lb.	.07	: .07
Eddible, bbls. NY.	.....	lb.	.10%	: .11
Cod, Newfoundland 50 gal. bbls. gal	.....	lb.	.56	: .60
Tanks, NY	.....	lb.	....
Copra, bags c i f NY.	.....	lb.	.04%	: .04
Corn, ref. 375 lb bbls. NY.	lb.	....	.12%	: .12
Crude, tanks miles	.....	lb.	.07%	: .08
Bbls. miles	.....	lb.	.09%	: .09
Bbls. NY	.....	lb.	.10%	: .10
COTTONSEED , crude tan. miles	lb.	....	....	: .07
P. S. Y. 100 bbl. lots NY.	lb.	....	....	: .08
White, 100 bbl. lots NY.	lb.	....	....	: .12
Winter yellow, 100 bbls. NY.	lb.	....	....	: .12
Degrad. Amer. 50 gal. bbls. NY.	lb.	....	.04	: .04
English, bbls. NY.	.....	lb.	.03%	: .04
Neutral, bbls. NY.	.....	lb.	.08%	: .09
Grease, choice white bbls. NY.	lb.	....	....	: .09
Yellow	.....	lb.	.07	: .07
Brown	.....	lb.	.06%	: .06
House	.....	lb.	.06%	: .07
Bone naphtha	.....	lb.	.05	: .05
Herring, 50 gal. bbls. NY.	gal	....	....
Horse, 375 lb bbls. NY.	lb.	....	....	: .06
Lard, city steam bbls.	lb.	....	....	: .12
Compound, bbls.	lb.	....	.11	: .11
LARD OIL , prime tech. bbls.	lb.	....	....	: .12
Edible prime, bbls.	lb.	....	....	: .14
Gff prime, bbls.	lb.	....	....	: .12
No. 1, bbls.	lb.	....	....	: .10
Extra No. 1, bbls.	lb.	....	....	: .11
No. 2, bbls.	lb.	....	....	: .10

LINSEED, raw c/l bbls.....	gal	.89		SOYA BEAN, crude tms. Coast..	lb	.10	.10%
Ten bbls., raw.....	gal	.92		Crude, bulk e.l.f. NY in bond.	lb	.06	.06%
Boiled, 5 bbl. lots.....	gal	.94		Crude, bulk e.l.f. PC in bond.	lb	.05%	.06
Double boiled 5 bbl. lots.....	gal	.95		Crude, bbls. NY.....	lb	.10	.11%
Raw, 8000 gal. tanks.....	gal	.85		Refined, bbls. NY.....	lb	.12%	.12%
Imported, bbls. NY.....	gal	.84		Amer. pressed, crd. bbls. NY.....	lb	.11	.11%
Imp. shipment, duty paid bbls gal	.81	.83		Sperm, 38° c. t. bled. bbls. NY. gal			1.05
Imp. tcs. NY.....	gal			45° cold test, bldcd. bbls. NY. gal			1.02
Menhaden, crude bbls. wks.....	gal	.47	.49	STEARIC ACID, s. p. 200 lb bags.	lb		.10%
Crude tanks wks Balt.....	gal	.43	.45	Double pressed, bgs.....	lb		.11
Light strained, tanks.....	gal		.53	Triple pressed, bgs, distilled in lb	lb		.12%
Light strained, bbls. NY.....	gal	.58		Triple pressed, bgs, saponified	lb		.13
Yellow bleached, bbls. NY.....	gal	.60	.61	Stearine, oleo. bbls.....	lb		.16
Blown, bbls. NY.....	gal		.68	Lard, bbls.....	lb	.14%	.144
Neatsfoot, 20° e.t. bbls. NY.....	lb	.18	.20	Tallow, edible, tiores.....	lb		.09%
30° cold test, bbls. NY.....	lb		.14%	City extra, loose.....	lb		.08
Pure, bbls. NY.....	lb		.12%	Tallow Oil, acidless tms. NY.....	lb		.10%
Oleo Oil, No. 1, bbls. NY.....	lb	.12½	.12½	Bbls. e/l NY.....	lb		.10%
No. 2, bbls. NY.....	lb	.10	.10%	Teased, crude bbls. NY.....	lb	.12%	.12%
No. 3, bbls. NY.....	lb	.09½	.09%	Walnut, crude bbls. NY.....	lb	.10%	.11
OLIVE, denatured bbls. NY.....	gal	1.15	1.18	Whale, nat. winter bbls. NY. gal			.70
Edible, bbls. NY.....	gal	1.80	2.10	Bidch. winter bbls. NY. gal			.75
Feots, bbls. NY.....	lb	.09½	.10	Crude, No. 1, tanks Coast..	lb		.06%
Shipment, duty paid.....	lb	.08	.08½	Crude, No. 2, tanks Coast..	lb		.05%
				Crude No. 3, tanks Coast..	lb		.05

Fertilizer Materials				
Palm Lagos, 1500 lb. casks	lb.	.07%	: .08	
Niger, casks	lb.	.06%	: .06%	
Bonny old Calabar, casks	lb.	..	..
Palm Kernel, 1500 lb. casks NY. lb.	lb.	.08%	: .09	
Peanut, refined bbls. NY.	lb.	.12%	: .12	
Crude, mills buyers' tks.	lb.	.08%	: .08%	
Crude, bbls. NY.	lb.	..	..
Crude, Coast, sellers tks in B/d/b	lb.	..	.07%	
Perilla, bbls. NY.	lb.	.16	: .17	
Shipment, c.i.f. NY bbls....	lb.	.13	: .13%	
Shipment, c.i.f. NY c/s.	lb.	.13	: .13%	
Poppyseed, bbls. NY.	gal	..	2.50	
Rapeseed, refined bbls. NY.	gal	.80	: .80	
Blown, bbls. NY.	gal	.95	: .98	
Red Oil, distilled bbls.	lb.	..	..
Saponified, bbls.	lb.	..	.10	
Salmon 8000 gal. tks. Coast.	gal	..	.40	
Sesame, domestic edible bbls.	gal	..	2.50	
Sod Oil, bbls. NY.	gal	..	.44	
Ammon. Sulf. bulk wks.	100 lb.	..	..	3.20
Double bgs. f.a.s. NY.	100 lb.	..	..	3.50
Blood, dried f.o.b. NY.	unit	..	..	4.25
Bone, 3 & 50 ground raw....	ton	28.00	..	30.00
Raw, Chicago	ton	..	..	25.00
Cyanamide wks.	unit	..	..	2.25
Fish Scrap, dried wks.	unit	4.00	&	.10
NITRATE SODA, NY.	100 lb.	..	..	2.45
Phosphate Rock, f.o.b. mines,				
Florida pebble, 68-75%	ton	3.00	..	3.50
Tennessee, 70-75%	ton	4.00	..	5.50
Phosphate Acid, 16% wks.	ton	3.00	..	3.50
Potassium Muriate, 80%	unit	..	..	.70
Sulfate	unit	..	..	.95
Steamed Bone Meal, NY.	ton	28.00	..	30.00
Tankage, ground NY.	unit	4.35	&	.10
High grade, f.o.b. Chicago.	unit	4.35	&	.10

Fertilizer Materials

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[NOVEMBER 1, 1922]

Tannins and Dyestuffs

Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.	gal	: 1.62
Wood Turpentine, stim distd. bbls.	gal	: 1.54
Destructive distilled, bbls.	gal	: 1.40
Pitch, prime	bbl	6.00 : 6.50
Rosin. (Sold in 600 lb. bbls., gross for net, quotations based on a unit of 280 lb.)		
B	280 lb	: 6.90
D	280 lb	: 6.95
E	280 lb	: 6.95
F	280 lb	: 6.95
G	280 lb	: 6.95
H	280 lb	: 6.95
I	280 lb	: 6.95
K	280 lb	: 6.95
M	280 lb	: 6.95
N	280 lb	: 7.00
WV	280 lb	: 7.50
WW	280 lb	: 8.15
Rosin Oil, first run 50 gal. bbls. gal		: .43
Second run, bbls.	gal	: .47
Tar, kiln-burnt	bbl	: 12.50
Retort	bbl	: 11.00

Woods

Burwood, chips	bbl	.04% : .05
Camwood, chips	bbl	.09 : .13
Divi Divi pods 100-200 lb. bags. ton	32.00 : 34.00	
Fustic, sticks	ton	35.00 : 37.00
Chips	bbl	.04 : .06
Hemlock, bark	ton	16.00 : 18.00
Hypernic, chips	bbl	.06% : .07
LOGWOOD, sticks	ton	: 30.00
Chips 150 lb. bags	bbl	.02% : .03
Mangrove bark, African.	ton	: 35.00
Bark, South American	ton	25.00 : 30.00

Myrobolans, 150 lb. bags Jl.	ton	... : 28.00
B1	ton	: 24.00
R2	ton	: 17.00
Nutgalls, see Crude Drugs.		
Oak bark, whole	ton	20.00 : 23.00
Ground	ton	... : 10.00
Quercitron bark, rough	ton	20.00 : 25.00
Ground	ton	... : 15.00
Sumac, Sicily, 180 lb. bags.	ton	55.00 : 58.00
Virginia, 150 lb. bags.	ton	... : 35.00
Valonia Cups, 28-33% tan.	ton	31.00 : 35.00
Beard, 40% tan, 150 lb. bags. ton	48.00 : 50.00	
Wattle bark, 150 lb. bags.	ton	38.00 : 40.00

Extracts

Range of prices includes quality range for large quantity.

Anatto, fine	bbl	.26 : .29	
Achil, double	600 lb. bbls.	.16 : .18	
Triple, 600 lb. bbls.	bbl	.17 : .19	
Conc., 600 lb. bbls.	bbl	.19 : .20	
Chestnut, clarified	25% tks. wks. ton	.0114 : .01%	
Powd., 80% 100 lb. bbls. wks. bbl	bbl	.05% : .05%	
Decolorized, bbls. wks. bbl	bbl	.09 : .09 1/2	
Cudbear, English	bbl	.21 : .23	
Cutch, Rangoon, 100 lb. bales.	bbl	.13 : .16	
Liquid, 450 lb. bbls.	bbl	.10 : .11	
Tablets, 120 lb. boxes.	bbl	.13 : .14	
Flavine	bbl	.90 : .95	
Fustic, solid	50 lb. boxes.	bbl	.14 : .14
Crystals, 100 lb. boxes.	bbl	.22 : .24	
Liquid, 51°, 600 lb. bbls.	bbl	.10 : .14	
Gal extract	bbl	.16 : .18	
Gambier, 25% lq. 450 lb. bbls.	bbl	.06 1/2 : .07	
Common, 200 lb. cases.	bbl	.05 1/2 : .05%	
Singapore cubes, 150 lb. bags.	bbl	.07 : .07 1/2	
HEMATINE, Paste, 500 lb. bbls.	bbl	.11 1/2 : .13 1/2	
Crystals, 400 lb. bbls.	bbl	.16 : .20	
Hemlock, 25% 600 lb. bbls. wks. bbl	bbl	.04 : .04 1/2	
Hypernic, 51°, 600 lb. bbls.	bbl	.15 : .20	
Indigo, Madras bbls.	bbl	.85 : .90	
Manila, bbls.	bbl	... : 1.30	

Larch, 25%, 600 lb. bbls. wks. bbl	bbl	.03 1/2 : .03 1/2
Powd. 100 lb. bags, wks. bbl	bbl	.07 1/2 : .08
Logwood, 51°, 450 lb. bbls. bbl	bbl	.08 : .10
Solid, 50 lb. boxes.	bbl	.15 : .21
Madder, Dutch	bbl	.28 : .30
Mangrove, 55% 400 lb. bbls. bbl	bbl	.05 : .05 1/2
Myrobolans, 25% liquid bbls. bbl	bbl	.05 : .05 1/2
50% solid, 50 lb. boxes.	bbl	.08 1/2 : .08 1/2
Oak, tanks wks. bbls. bbl	bbl	.04 1/2 : .04 1/2
23-25% lq. 600 lb. bbls. wks. bbl	bbl	.05 : .05 1/2
Osage Orange, 42° liquid. bbls. bbl	bbl	.07 : .08
Powd. 100 lb. bags.	bbl	.14 : .15
Persian Berries	bbl	.27 : .30
QUEBRACHO, 35% liquid tks. bbl	bbl	.03% : .04
450 lb. bbls.	bbl	.04 1/2 : .04 1/2
35% bleaching, 450 lb. bbls. bbl	bbl	.04% : .05%
Solid 65% 100 lb. bales.	bbl	.04% : .05
Clarified bales	bbl	.05 1/2 : .05 1/2
Quercitron, 51° 450 lb. bbls. bbl	bbl	.06 : .07
Powdered, 100 lb. boxes.	bbl	.09 : .13
Spruce, 25% liquid tanks wks. bbl	bbl	.01 : .01 1/2
Powd. 50% 100 lb. bags wks. bbl	bbl	.02 : .02 1/2
Sumac, liquid 450 lb. bbls. bbl	bbl	.07 : .09

DYERS' SUNDRIES

Albumen, technical, eggs 200 lb. c. n. b.	bbl	.72
Blood, domestic, 100 lb. drs. b.	bbl	.45 : .50
British Gum, 140 lb. bags c/l 100 lb.	bbl	... : 3.39
Bags lc/l	bbl	... : 3.67
Dextrin, corn 140 lb. bags c/l 100 lb.	bbl	... : 3.09
Bags lc/l	bbl	... : 3.37
Potato 140 lb. bags c/l 100 lb.	bbl	... : .92
Bags lc/l	bbl	... : .99 1/2
Pruian blue	bbl	.60 : .62
Sago Flour, 150 lb. bags.	bbl	.03% : .03 1/2
Spray Varn. 150 lb. es. b.	bbl	.35 : .45
STARCH, powd. 140 lb. bags c/l 1100 lb.	bbl	... : 2.47
Bags lc/l	bbl	... : 2.75
Pearl, 140 lb. bags c/l 100 lb.	bbl	2.37 : 2.65
Potato, domestic, 140 lb. bags. b.	bbl	.05% : .05 1/2
Imported, bags duty paid. b.	bbl	.06% : .07 1/2
Tapioke Flour, high grade bags.	bbl	.05 : .05 1/2
Medium grade, bags.	bbl	.03% : .04
Low grade, bags.	bbl	.03 : .03 1/2
Turkey Red Oil, bbls.	bbl	.09 : .11
Volk Oil, bbls.	bbl	... : .35

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Crude Drugs

Crude Drugs

Acetoides Gum, yel.	lb .18	: .20
ACONITE Leaves, bales	lb ..	: .25
Aconite Root, USP bags	lb .23	: .25
Agar Agar, 1, 200 lb bales	lb 1.48	: 1.50
No. 2, bales	lb 1.35	: 1.40
No. 3, bales	lb 1.25	: 1.30
Agaric, white, cases	lb ***	: ***
Almonds, bltter bags bxs	lb .25	: .30
Sweet, bags	lb .30	: .35
Meal, tms, boxes	lb .28	: .30
Aletis Root, bags	lb .55	: .60
Alkanet Root, bags	lb .08	: .09
Aloe, Barbados, 120lb bbls	lb ..	: .60
Cape, 400lb cases	lb .07 1/2	: .08
Curacao, 100lb cases	lb .06	: .06 1/2
Socotrine, whole 100lb cs.	lb .30	: .35
Althea Root, cut cases	lb .13	: .14
Whole bags	lb .08	: .10
Ambergris, black boxes	os ..	: 8.00
Grey, boxes	os ..	: 28.00
Ammoniac, tears bags	lb 1.50	: 1.60
Angelica Root, dom bags	lb .15	: .16
Angostura Bark, bags	lb .14	: .15
Anise, Levant bags	lb .17	: .17 1/2
Star, cases	lb .14 1/2	: .15
Spanish, bags	lb .18	: 18 1/2
Anatto Seed, bags	lb .03	: .03 1/2
ARABIC GUM, 200lb cases	lb .25	: .27
Seconds, 250lb bags	lb .20	: .22
Sorts, amber, 200lb bags, bxs	lb .15	: .15 1/2
Powd., USP 300lb bbls	lb .20	: .22
Arec Nuts, 150lb bags	lb .09	: .10
Powd., 200lb bbls	lb .12	: .14
Arnica Flowers, bales	lb .09	: .10
Root, bags	lb ..	: .50
Arrowroot, Amer. powd. bbls	lb .05	: .06
St. Vincent, powd. bbls	lb .07 1/2	: .08
Asafetida, USP, 250lb cases	lb .35	: .38
Powd., 50lb bxs	lb .60	: .62
BALM GILEAD BUDS, bags	lb .43	: .48
Balmony Herb, bales	lb .14	: .15
Bamboo Brier Root, bags	lb .06	: .08
Barberry Bark, tree bales	lb .21	: .22
Bayberry Bark, bales	lb .10	: .12
Wax, bbls	lb .21	: .22
Belladonna Leaves, bales	lb .12	: .13
Root, bags	lb .13	: .14
Bees Wax, white bbls	lb .30	: .32
Yellow, refined bbls	lb .23	: .24
Crude, bags	lb .20	: .22
Benzoin Gum, Siam, boxes	lb 1.40	: 1.60
Sumatra, 80lb boxes	lb .47	: .50
Bonset Herb, bales	lb .09	: .11
Beth Root, bags	lb .15	: .16
Blackhawk Bark, root, bales	lb .30	: .31
Tree, bales	lb .15	: .16
Blood Root, bags	lb .14	: .15
Blueflag Root, bags	lb .23	: .25
Long, bales	lb .105	: 1.10
Buckthorn Bark, bales	lb .07 1/2	: .08
Burdock Root, bags	lb .20	: .22
Burgundy Pitch, dom 110lb stands	lb ..	: .05
Gross for net.	lb ..	: .05
Calabar Beans, bags	lb .17	: .18
Calamus Root, bleached cases	lb .40	: .42
Unbleached, bags	lb .10	: .11
Calendula Petals, imp. bales	lb ..	: .40
Calisaya Bark, bales	lb .12	: .14
Camphor, see Chemicals	lb ..	: .06
Canary Seed, Morocco bags	lb .06	: .06 1/2
South American, bags	lb .04%	: .04%
Candelilla Wax, bags	lb ..	: .35
Canella Alba Bark, bales	lb .45	: .47
Cannabis, true imp. bags	lb ..	: 6.00
American (no assay) bales	lb .35	: .50
USP, bales	lb ..	: 1.25
Cantharides, Chinese cases	lb 1.05	: 1.10
Powd., boxes	lb ..	: 1.25
Cantharides, Russian, cases	lb 3.25	: 3.30
Powdered, boxes	lb 3.70	: 3.75
Caraway Seed, African bags	lb ..	: ..
Dutch, 100lb bags	lb .19 1/2	: .20
Cardamom, bleached cases	lb .73	: 1.15
Decoritated, cases	lb .61	: .63
Green, grinding, bags	lb .65	: .66
Carnauba Wax, Flor. bags	lb .45	: .48
No. 1 N Country bags	lb .40	: .43
No. 2 N Country bags	lb .23	: .25
No. 3 Fatty Gray, bags	lb .20	: .21
No. 3 Chalky, bags	lb .17	: .18
Cascara Amarga, 150lb bales	lb .32	: .33
Cascara Sagrada, bales	lb .12	: .15
Cascarella Bark, quill, bales	lb .30	: .35
Siftings, bbls	lb .20	: .25
Cassia Buds, 66lb cases	lb .12 1/2	: .13
China, select, mats cases	lb .05 1/2	: .06 1/2
Saigon, assort. bales	lb .25	: .25 1/2
Cassia Fistula, baskets	lb .08	: .08 1/2
Castor Beans, bags	lb .03	: .03 1/2
Castoreum, 1lb bot.	lb ..	: 4.00
Catechu Gum, bags	lb ..	: .10
Catnip Herb, baled	lb .10	: .15
Celery Seed, 220lb db bags	lb .20	: .20 1/2
Ceresin Wax, white bags	lb .08 1/2	: .09
Yellow, 200lb bags	lb .07 1/2	: .08 1/2
CHAMOMILE FLOWERS, Roman	lb ..	: .05
bales	lb .75	: .80
Hung, cases, bales	lb .23	: .25
Charcoal Willow, powd. bbls	lb .06	: .07
Wood, powd. bbls	lb .04	: .04 1/2
Chestnut Bark, bags	lb .07	: .08
Herb, bales	lb .06	: .06 1/2
Chicle Gum, bags	lb .70	: .75
Chireta, bales	lb .13	: .14
Cinchona Bark, red quills, bales	lb .50	: .55
Broken, bales	lb .12	: .14
Cinnamon, Ceylon, bales, bond	lb .18	: .20
Civet, Abyssin horns	os ..	: 2.75
Clover Tops, bags	lb .10	: .12
Cloves, Zanzibar, 135lb bales	lb .31	: .32
Amboynas, bales	lb ..	: ...
Penang, bales	lb ..	: ...

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[NOVEMBER 1, 1922]

Crude Drugs

Cochineal, USP boxes.....	D	.35	: .45
Coca Leaves, Huancas bags.....	D	...	: ...
Truxillo, bags	D	...	: .50
Cohco Root, Black bags.....	D	.08	: .08½
Blue, bags	D	.09	: .09½
Colchicum Root, bags.....	D	.08½	: .09
Seed, bags	D	.12	: .18
Colombo Root, whole bags.....	D	.08	: .04
Cocoynuth, apples cases bbls.....	D	.20	: .22
Pulp, USP bales.....	D	.35	: .30
Calatfoot Leaves, bags.....	D	.07	: .07½
Comfrey Root, bags.....	D	.20	: .21
Condurango Bark, bales.....	D	.07	: .08
Conium Seeds, bags.....	D	.15	: .16
Copalba Balsam Para 80 lb cases D	D	.24	: .25
S. Amer. 80 lb cases.....	D	.29	: .30
Copal Gum	D	.12	: .15
Coriander Seed, Bombay bags...D	D	...	: ...
Morocco, bags	D	.12½	: .13½
Bleached, bags	D	.16	: .16½
Corn Silk, bales.....	D	.05½	: .06
Cotton Root Bark, bales.....	D	.13	: .14
Cramp Bark, so-called bales.....	D	.08	: .09
True, bags	D	.40	: .42
Cressetill Root, bags.....	D	.12	: .13½
GUBER BERRIES, XX bags.....	D	.80	: .82½
Powdered, boxes	D	.85	: .87½
Cumin Seed, Levant bags.....	D	...	: ...
Morocco, bags	D	.30	: .31
Culver's Root, bags	D	...	: ...
Cuttlefish Bone, Trieste, straps.....	D	.19	: .20
Jewelers, large, straps.....	D	.45	: .50
Small, straps	D	.35	: .40
French, straps	D	...	: .30
Powdered, boxes	D	...	: .14
Damar Gum, 136 lb cases.....	D	.32	: .34
Damiana Leaves, bales.....	D	.10½	: .11
Dandelion Root, Imp., bags.....	D	...	: .09
Deer Tongue Leaves, bales.....	D	.07½	: .08
Digitalis Leaves, bales.....	D	.08½	: .07
Dill Seed, bags	D	.10	: .10½
Dogwood Bark, Jamaica bags.....D	D	.10	: .11
Flowers, bales	D	...	: .15
Doggrass Root, USP cut bags.....D	D	.09½	: .10
Dragon's Blood, mass cases.....D	D	.60	: .62
Reeds, boxes	D	.90	: .95
ECHINACEA ROOT, bags.....D	D	.33	: .34
Elecampane Root, bags.....D	D	.09	: .10
Elder Flowers, bales.....D	D	.22	: .23
Elmi Gum, 80 lb cases.....D	D	.10	: .12
Elm, select 5 lb bundles cases ..D	D	.27	: .28
Grinding, bags	D	.12	: .14
Powdered, bbls	D	.14	: .17
ERGOT, 150-200 lb bags.....D	D	.58	: .60
Eucalyptus Leaves, bales.....D	D	.05	: .05½
Euphorbia Pfluefers Herb, bags.D	D	.14	: .15
Euphorbium Gum, cases.....D	D	...	: .35
Powdered, boxes	D	...	: .40
Fennel Seed, French bags.....D	D	.12½	: .13
German, bags	D	.20	: .22
Flax Seed, whole 180 lb bbls.....	D	12.00	: 12.25
Ground, 180 lb bbls	D	.08½	: .07
Foeniugreen Seed, 200 lb bags..D	D	.06	: .07
Fir Balsam, Canada cans.....gal	D	10.75	: 11.00
Oregon, bbls. cans.....gal	D	1.35	: 1.45
Fish Berries, 100-125 lb bags.....D	D	.03½	: .04
Fringe Tree Bark, bags.....D	D	.18	: .20
GALANGAL ROOT, bags.....D	D	.07	: .08
Gambier Gum, bags	D	...	: .06½
Galbanum Gum, cans.....D	D	1.05	: 1.10
Gamboge Gum, 160 lb cases.....D	D	1.08	: 1.15
Geisemann Root, bags.....D	D	.11	: .12
Gentian Root, bags.....D	D	.08½	: .10½
Ginger, African, bags.....D	D	.10½	: .11
Jamaica, grinding, bags bbls ..D	D	.33	: .43
Cochin, ABC & lemon, bags ..D	D	.12½	: .12½
Ginseng Root, cultivated, bags ..D	D	7.50	: 10.00
Northwestern Wild, bags.....D	D	12.00	: 15.00
Southern Wild, bags	D	9.00	: 11.00
Golden Seal Root, bags.....D	D	3.30	: 3.35
Powdered, boxes	D	3.60	: 3.75
Grains of Paradise, bags.....D	D	.12	: .13
Grindelia Robusta Herb, bales..D	D	...	: .12
Guaiac Gum, 200 lb cases.....D	D	.60	: .65
Guarana, tins, cases.....D	D	.60	: .75
Gum, see Arabic Gum, etc.			
HELEBORE ROOT,			
Black, pd. bbls	D	...	: .15
White, bags	D	.10	: .11
Powdered, 250 lb bbls.....D	D	.12	: .13
Helonias Root, (unicorn false) bags	D	...	
Hemp Seed, Manchurian bags ..D	D	.03½	: .04½
Chilian, bags	D	...	
Henbane Leaves, bales	D	.42	: .43
Henna Leaves, bales	D	.24	: .25
Honey, Calif., 120 lb cases.....D	D	.28	: .35
Hops, N. Y. prime bales.....D	D	.18	: .20
Pacific Coast prime bales ..D	D	...	
Horehound Herb, bales	D	.09	: .09½
Horsechestnut, bags	D	.14	: .15
INDIA GUM, see Karaya			
Insect Flowers, open whole bales ..D	D	...	: .44
Closed whole, bales	D	...	: .50
Powdered, pure 200 lb bbls ..D	D	.51	: .52
Flowers and stems, 50 p. c. 200 lb bbls ..D	D	...	
Ipecac Root, Cartagena bags ..D	D	...	: .33
Powdered, 200 lb bbls, boxes ..D	D	1.75	: 1.80
Rio Whole, bags	D	...	: .55
Powdered, 200 lb bbls, boxes ..D	D	1.75	: 1.80
Izinglass, American, 130 lb cs ..D	D	.65	: .70
Romanian, (Beluga) tins etc ..D	D	...	: 10.00
JABORANDI LEAVES, bales ..D	D	.28	: .29
Jalap Root, whole 150 lb bags ..D	D	.25	: .27
Powdered, USP 250 lb bbls ..D	D	.29	: .31
Japan Wax, 224 lb cases ..D	D	...	: .15
Job's Tears, white bags	D	.08	: .09
Juniper Berries, 125 lb bags ..D	D	.03	: .03½
KAMALA, boxes	D	3.20	: 3.25
Karaya Gum, powdered bbls ..D	D	.15	: .30
Kava Kava Root, bags	D	.16	: .17
Kino Gum, black cases ..D	D	...	: .50
Kola Nuts, 150 lb bags ..D	D	.05	: .06
Kousa Flowers, bags	D	...	: 2.50

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LADY SLIPPER ROOT, bags....	lb . . . : .50	Musk pods Cabardine tins....	oz 16.00 : 17.00	Patchouli Leaves, bals....	lb .25 : .38
Larkspur Seed, bags.....	lb .22 : .23	Tonquin	oz 22.00 : 25.00	Pepper, black Sing, bags....	lb .09% : .10%
Laurel Leaves, bales.....	lb .04% : .05	Grain Cab.	oz 25.00 : 26.00	White, bags	lb .12% : .13
Lavender Flowers, bales.....	lb .35 : .40	Tonquin	oz 35.00 : 38.00	Peppers, red Mombasa bags....	lb .32 : .33
Leeches, tubs	Per 100 9.00 : 9.50	Synthetic, see Chemicals.		Cherries, bags	lb .16% : .17
Lemon Peel, bags.....	lb .08 : .08%	Musk Root, Russian bags....	lb . . . : . . .	Bombay, bags	lb .14 : .14%
Licorice Root, Russian cut.....	lb . . .	Mustard Seed, Barb brown bags....	lb .07% : .08	Japan, bags	lb .38 : .39
Spanish, natural bales.....	lb .09% : .10	Bombay, brown	lb .08% : .08%	Penroyal Herb, bales.....	lb .08 : .14
Powdered, bbls.....	lb .10% : .12%	California, brown	lb .07% : .08	Peppermint Leaves, Imp. bales..	lb .18 : .20
Selected, 2 & 5 lb bundles.....	.13% : .25	Yellow	lb . . . : .08	Pere Balsam, 120 lb kegs.....	lb 1.70 : 1.75
Cuttings, 125 lb bags.....	lb .09 : .10	Chinese, yellow	lb .04 : .04%	Pichi Leaves, bags.....	lb . . . : .18
Life Everlasting Herbs, bales....	lb .05 : .06	English, yellow	lb .08 : .09	Pimento, select bags.....	lb .04% : .04%
Lime Juice, clarified bbls....	gal .50 : .60	Dutch, yellow	lb .08 : .08%	Pink Root, true bags.....	lb . . . : .95
Linden Flowers, with leaves, bales lb.....	.25	Myrrh Gum, select 200 lb oz	lb .50 : .55	Pitch, Burgundy, see Burgundy Pitch	
Without Leaves, bales.....	lb . . . : .30	Sorts, cases	lb .45 : .48	Pleurisy Root, bags	lb .22 : .23
Liverwort Leaves, bales.....	lb . . . : .25	NUTGALLS, Chinese bags....	lb .16 : .17	Plantain Leaves, bales	lb . . . : .15
Lobelia Herb, bales.....	lb .10 : .12	Aleppy, bags	lb .18 : .14	Poke Root, bags	lb .07 : .07%
Lobelia Seed, bags.....	lb . . . : .70	Nutmegs, 110z cases.....	lb .21 : .22	Pomegranate Bark, of root bags	lb . . . : .30
Lovage Root, bags.....	lb .30 : .35	75z 80z cases.....	lb .24 : .24%	Of Fruit, bags	lb . . . : .30
Lupulin, boxes	lb 1.25 : 1.30	Nux Vomica Tinctures, bags.....	lb .07 : .07%	Poppy Flowers, red bags.....	lb .30 : .35
Lycopodium, 88 lb	lb .72 : .75	Powdered, 200 lb bbls.....	lb .10% : .11	Poppy Seeds, Dutch bags.....	lb .12 : .12%
MACE, Siam, No. 1 cases.....	lb .41% : .42	SAK BARK, red bags....	lb .05 : .06	German, bags	lb .12 : .12%
Banda, No. 1 cases.....	lb .44 : .45	White, bags	lb .05 : .06	Turkish, bags	lb .06 : .08
Batavia, cases	lb .36 : .37	Olibanum Gum, sift 280 lb cases.....	lb .10% : .11	Blue Indian, bags	lb .08 : .08%
Malva Flowers, blue bales.....	lb .35 : .38	Tears, 280 lb cases.....	lb .14% : .15	White Indian, bags	lb .07 : .07%
Black, bales	lb .95 : 1.00	No. 1, all white, 280 lb cases.....	lb .24 : .30	Prickly Ash Bark Southern, bags	lb .14 : .14%
Manna, large flake cases.....	lb .65 : .70	Opium, gum USP cases.....	lb . . . : .65	Northern, bags	lb .14 : .14%
Small flake, cases.....	lb .38 : .40	Granular, cans	lb . . . : 7.75	Prickly Ash Berries, bags	lb .11 : .12
Sorts, cases	lb .36 : .37	Powdered, USP cans	lb . . . : 7.75	Prince's Pine, bales	lb .14 : .15
Mandrake Root, bags.....	lb .17 : .18	Orange Flowers, cases	lb . . . : 1.00	Puisatilla Herb, bags	lb . . . : .40
Mastic Gum, 120 lb cases.....	lb .60 : .65	Orange Peel, bitter bags	lb .05% : .06	Pumpkin Seed, bags	lb .14 : .15
Mesereon Bark, bags.....	lb .11 : .13	Sweet, bags	lb .05 : .05%	QUASSIA CHIPS, bags	lb .07% : .08
Matico Leaves, bales.....	lb .18 : .20	Orris Root Florentine bold bags	lb .07 : .08	Queen of the Meadow Herb, bags	lb .06 : .06%
Majoram Leaves, German bales..	lb .22% : .23%	Verona, bags	lb .05 : .06	Quince Seed, bags	lb . . . : . . .
French, bales	lb .18% : .18	Powdered, 200 lb bbls.....	lb .08 : .09	RAPE SEED, South Amer. bags ..	lb .06% : .07%
Millet Seed, dom yellow bags....	lb .03% : .06	Fingers, cases	lb .75 : .80	Dutch, bags	lb .08% : .08%
Montan, Wax, crude bags.....	lb .04% : .05	Ozokerite Wax, brown hard bags	lb .22 : .24	Japanese, small, bags	lb .06% : .07%
Bleached	lb . . .	Green, hard bags	lb .25 : .26	Raspberries, dried boxes	lb .35 : .40
Moss, Iceland bales.....	lb .07 : .08	Refined, yellow bags	lb . . . : . . .	Red Saunders	lb .18 : .20
Irish, bleached bales	lb .07 : .09	PAPRIKA, bags	lb .16 : .24	Rhubarb Root, bags	lb .10 : .11
Mullein Flowers, tins.....	lb .55 : .60	Fareira Brava Root, bags	lb .23 : .25	RHUCARE, H. D. cases	lb .44 : .47
		Parsley Seed, bags	lb .08 : .09	Powdered, 200 lb bbls	lb .50 : .52
				Rosemary Leaves, bales	lb .03 : .04



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[NOVEMBER 1, 1922]

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Rosemary Flowers, case bales... Ib .38 : .30	Snake Root, Canada natural bags. Ib . . . : .35	Tragancanth Gum, No. 1, ribbon, 200 lb cs. Ib 1.75 : 1.80
Rose Petals, pale ... Ib .25 : .30	Stripped, bags ... Ib .48 : .50	No. 2 to No. 6, cases ... Ib 1.00 : 1.50
Red ... Ib . . . : .65	SOAP BARK, whole, 150-200 lb bales ... Ib .06% : .07	Powdered, 50 lb boxes ... Ib 1.00 : 1.50
Rue Herb, bales... Ib .35 : .30	Cut, 125-175 lb bags ... Ib .07% : .08	Turkish, cases ... Ib .75 : .90
SABADILLA SEED, bags... Ib .12 : .13	Crushed, 200 lb bbls ... Ib .08% : .09	Aleppy, bags ... Ib .06% : .06%
Powder, boxes ... Ib .13 : .14	Powdered, 200 lb bbls ... Ib .13 : .13	China, bags ... Ib .05% : .06
Saffron Flowers, Amer. bales... Ib 1.40 : 1.45	Spearmint Leaves, American bales... Ib .23 : .24	Turpentine, Venice, true 80 lb cs. Ib .28 : .30
Valencia 1 lb cans... Ib 31.00 : 32.00	Spermaceti, blocks cakes cases... Ib .36 : .37	Artificial, 80 lb cases... Ib .09% : .12
Sage, Dalmatian bales... Ib .05 : .06	Spikenard Root, bags ... Ib .16 : .17	Spirits, see Naval Stores
Greek, bales ... Ib .03% : .04	Spruce Gum, boxes... Ib 1.00 : 1.50	UNICORN ROOT, false, see Helonias
Spanish, bales ... Ib .03 : .04	Squaw Vine, bales ... Ib .17 : .18	True, see Aletris
Sandalwood, chips bags... Ib . . . : .35	Quill Root, white bags... Ib .04 : .04%	Uva Ursi Leaves, bales... Ib .05% : .06
Ground, bags ... Ib . . . : .40	Stavesacre Seed, bags ... Ib .29 : .30	VALERIAN ROOT, Belgian bags. Ib 12 : 14
Sandarac Gum, 300 lb bbls... Ib .25 : .27	Stillingia Root, bags... Ib .09 : .09%	Vanilla Beans Mex. whole cases. Ib 10.00 : 12.00
Sarsaparilla, Honduras bales... Ib .50 : .52	Stone Root, bags... Ib .09 : .10	Cuts, cases ... Ib 7.00 : 7.25
Mexican, bales ... Ib .24 : .25	Storax, Liquid artif... Ib .70 : .75	Bourbon, cases ... Ib 2.75 : 3.25
Sassafras Bark, ordinary bales... Ib .10 : .14	Gen. USP ... Ib .90 : 1.00	South American, cases... Ib 7.00 : 7.25
Select, bales ... Ib .20 : .22	St. Ignatius Beans, bags... Ib . . . : .22	Tahiti, yellow label cases... Ib 1.80 : 2.00
Savory Leaves, bales... Ib .09% : .10	St. John's Bread, bags... Ib .03 : .08	Green Label cases... Ib 1.80 : 2.00
Saw Palmetto Berries, bags... Ib .12 : .13	Stramonium Leaves, bales... Ib .07% : .08	Violet Flowers, bags... Ib . . . : .70
Scammony Resin, boxes... Ib 1.00 : 1.10	Stramonium Seed, bags... Ib .13 : .14	WAHOO BARK, of root bags... Ib . . . : 1.25
Scammony Root, bags... Ib .05 : .06	Kombe, bags ... Ib . . . : .35	"O" Tree, bags... Ib .25 : .26
Seneca Root, bags... Ib .75 : .80	Sunflower Seed, domestic bags... Ib .07 : .07%	White Pine Bark, roased, bags... Ib .06 : .07
SENNA, Alex, 150 lb cases... Ib .32 : .35	South American, bags... Ib .05% : .06%	White Poplar Bark, bags... Ib .04 : .05
Half Leaf, 350 lb bales... Ib .16 : .17	TAGALDER BARK, bags... Ib .05 : .05%	Wild Cherry Bark, thin green
Siftings, 400 lb bales... Ib .09 : .09%	Tamarinds, bbls. Ib .04 : .04%	Rosed, bales ... Ib .10 : .13
Powdered, 200 lb bbls... Ib .12 : .13	Kegs ... per keg 2.75 : 3.00	Thick Rosed, bales... Ib .06% : .07
Tinnevelly, job, 350 lb bales... Ib .10 : .14	Tansy Leaves, bales... Ib .18 : .20	Thin Natural, bales... Ib .07 : .07%
Grinding, 350 lb bales... Ib .06 : .08	Tar, Barbados, 50 gal. bbls gal. 1.60 : 1.75	Thick Natural, bales... Ib .04% : .05
Pods, 350 lb bales... Ib .06% : .07	Thus Gum, bbls ... 100 lb 4.50 : 6.00	Willow, bark bags... Ib . . . : .06
Powdered, 200 lb bbls... Ib .08 : .09	Thyme, Spanish bales... Ib .07% : .08	White, bags ... Ib .15
Serpentina Root, bags... Ib .85 : .90	Tiliac, See Linden	Witch Hazel Bark, bags... Ib . . . : .08
Shellac, T.N., bags... Ib .70 : .72	Tolu Balsam, 90 lb cases... Ib .70 : .75	Witch Hazel Leaves, bales... Ib . . . : .09
Superfine Orange, bags... Ib .75 : .80	Tonga Bark, bags... Ib .30 : .31	Worm Seed, American bags... Ib .10 : .11
D. C., bags... Ib .98 : 1.00	Tonka Beans, Angostura cases... Ib 2.00 : 2.25	Levant, bags ... Ib . . . : 3.30
V. S. O., cases... Ib .98 : 1.00	Para, cases ... Ib .80 : .85	Wormwood Herb, imported bales. Ib .10 : .13
Fwd. reg., 350 lb bbls... Ib .80 : .82	Surinam, cases... Ib .85 : .95	Yucca Gum, red... Ib .04 : .04%
Regular Bleached, 350 lb bbls... Ib .78 : .80	French, bales ... Ib .09% : .09%	Ground ... Ib .05% : .06%
Bone Dry, 350 lb bbls... Ib .82 : .84	Tolu Balsam, 90 lb cases... Ib .70 : .75	YELLOW DOCK ROOT, bags... Ib . . . : .12
Sideritis Herb, cut bags... Ib .14% : .16	Tonga Bark, bags... Ib .30 : .31	Yellow Parilla Root, bags... Ib . . . : .20
Simaruba Bark, bales... Ib .12 : .13	Tonka Beans, Angostura cases... Ib 2.00 : 2.25	Yerba Santa, bags... Ib .10 : .11
Skullcap Leaves, bales... Ib . . . : .20	Para, cases ... Ib .80 : .85	Zedoary Root, bags... Ib . . . : .10
Sloe Berries, bags... Ib .03 : .04	Surinam, cases... Ib .85 : .95	

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Essential Oils

Almond, Bitter USP 5 lb bots.	lb 4.00	: 4.25
Bitter ff PA 5 lb bots.	lb 4.00	: 4.25
Artificial. (See Benzaldehyde—Chemicals)		
Sweet, 56 lb cans.	lb .40	: .45
Peach Kernel, 55 lb tins.	lb .25	: .27
Apricot, see Peach Kernel		
Amber, crude 25 lb tins.	lb .75	: .80
Rectified, 25 lb tins.	lb 1.00	: 1.10
Angelica Root, 1 lb bot.	lb 38.00	: 39.00
Seed, 1 lb bot.	lb 36.00	: 38.00
ANISE, Tech., 66 lb case.	lb .50	: .55
USP 50 lb cans.	lb .55	: .60
Bay, 25 lb tins.	lb 2.50	: 2.75
Bergamot, USP 25 lb coppers.	lb 3.00	: 3.15
Artificial, 25 lb cans.	lb 2.25	: 2.50
Birch Tar, rect. 5 lb bot.	lb ...	: 2.75
Crude, 50 lb tins.	lb ...	: 1.75
Bois de Rose, 25 lb tins.	lb 2.40	: 2.65
Cajuput, native, 50 lb tins.	lb .75	: .80
Cade, USP 25 lb tins.	lb .50	: .55
USP, 5 lb bot.	lb .60	: .65
Calamus, 5 lb bot.	lb 4.25	: 4.75
Cambor, heavy, 1000 lb drums.	lb .11 1/2	: .12
Japanese, white, 72 lb cases.	lb .16	: .18
Chinese, white 1000 lb drums.	lb .16	: .18
Cananga, Native 25 lb tins.	lb 2.25	: 2.50
Rectified, 25 lb tins.	lb 2.50	: 2.75
Caraway, USP rec. 25 lb tins.	lb 4.25	: 4.50
Crude, 50 lb tins.	lb ...	: ..
Cardamon, USP 1 lb bot.	lb 13.00	: 14.00
Carrol, 5 lb bot.	lb 7.00	: 7.25
CASSIA, 75-80 p.c. 66 lb cases.	lb 1.35	: 1.40
Redistilled, USP 50 lb cans.	lb 1.65	: 1.75
Cedar Leaf, 50 lb tins.	lb .85	: 1.00
Cedar Wood, light 1000 lb drums.	lb .25	: .26
Celery, 1 lb bot.	lb 9.00	: 10.00
Cinnamon, Ceylon 1 lb bot.	lb 12.00	: 15.00
Leaf, 5 lb bot.	lb ...	: 2.00
CITRONELLA, Ceylon, 400 lb drs.	lb .46 1/2	: .48
50 lb tins.	lb .48 1/2	: .50
Java, 400 lb drums.	lb .68	: .72
50 lb tins.	lb .75	: .80
Cloves, USP, 50 lb cans.	lb 2.00	: 2.10
6 lb bot.	lb 2.10	: 2.20

Copaiba, USP 50 lb tins.	lb .40	: .45
Coriander, USP 1 lb bot.	lb 22.00	: 22.50
Croton, USP 25 lb tins.	lb 1.00	: 1.10
Cubes, USP 5 lb bot.	lb 5.75	: 6.00
Cumin, 1 lb bot.	lb 10.00	: 12.00
DILL, 1 lb bot.	lb ...	: 5.00
Eriogon, 20 lb tins.	lb 1.25	: 1.35
EUCALYPTUS, Austl. USP	50 lb cans.	lb .40 : .45
Fennel, USP, 25 lb tins.	lb 1.40	: 1.50
Geranium, Algerian 25 lb tins.	lb 8.50	: 9.50
Bourbon, 25 lb tins.	lb 5.00	: 5.25
Turkish, 25 lb tins.	lb 4.50	: 5.00
Ginger, 1 lb bot.	lb 5.25	: 5.50
Gingergrass, 28 lb tins.	lb 2.75	: 3.00
Hemlock, 50 lb cans.	lb 1.10	: 1.25
Juniper Berries, USP 25 lb tins.	lb 1.00	: 1.20
Wood, 50 lb tins.	lb .50	: .60
Lavender, USP 28 lb tins.	lb 3.00	: 4.00
Spike, Spanish 50 lb cans.	lb .70	: .80
LEMON, Ital. USP, 25 lb tins.	lb .65	: .80
American, USP, 25 lb tins.	lb .70	: .75
Lemongrass, native, 50 lb cans.	lb .75	: .85
Limes, express 25 lb tins.	lb 2.00	: 2.25
Distilled 25 lb tins.	lb .50	: .55
Linaloe, Mex. 80 lb cases.	lb 2.15	: 2.35
Mace, distilled 50 lb tins.	lb .95	: 1.05
Mirbane, ret., see Ar. Chemicals		
Mustard, 1 lb bot.	lb ...	: 17.00
Artif., USP, 5 lb bot.	lb 2.50	: 2.75
100 lb cases	lb ...	: 2.30
Neroli, Bigarade 1/2 and 1 lb bot.	lb 75.00	: 80.00
Petale, 1 lb bot.	lb 90.00	: 100.00
Artificial, 1 lb bot.	lb 10.00	: 25.00
Nutmeg, USP, 25 lb tins.	lb .85	: .95
Orange, bitter 25 lb tins.	lb 1.90	: 2.00
Sweet, W. Ind. 25 lb tins.	lb 2.40	: 2.50
Italian, 25 lb cop.	lb 2.60	: 2.70
American, 25 lb tins.	lb 2.90	: 3.00
Origanum, 50 lb cans.	lb .25	: .30
Parley, 1 lb bot.	lb 5.00	: 5.60
Patchouli, 5 lb bot.	lb 8.25	: 12.00
Pennyroyal, dom 25 lb tins.	lb 1.95	: 2.25
Imported, 25 lb tins.	lb 1.65	: 1.75
PEPPERMINT, nat. 60 lb cases.	lb 2.60	: 2.70
Redist., USP, 60 lb cases.	lb 2.85	: 3.00
Petit Grain, S. Am. 25 lb tins.	lb 1.60	: 1.70
French, 1 lb bot.	lb 7.50	: 8.00
Pimento, 25 lb tins.	lb 1.80	: 1.90
Pinus Sylvester, 25 lb tins.	lb ...	: 1.75
Fumillo, USP, 25 lb tins.	lb ...	: 3.00
Rose, Fr., S. 16 & 32 oz pkgs. on	lb ...	: 9.00
Bulg., S. 16 & 32 oz pkgs. on	lb 5.50	: 6.50
Artificial, 1 lb bot.	lb ...	: 3.00
Rosemary, USP, 27 1/2 lb tins.	lb .50	: .55
Tech., 27 1/2 lb tins.	lb .40	: .50
Rue, 1 lb bot.	lb 4.25	: 4.50
Sandalwood, E. Ind. USP 40 lb cases.	lb 6.65	: 6.80
W. Indian, (Amyris) 25 lb tins.	lb 4.00	: 4.10
Sassafras, USP 50 lb cans.	lb .85	: .90
Artificial, 63 lb cans, 1000 lb drs.	lb .42	: .45
Savin, 5 lb tins.	lb 3.75	: 4.00
Spearmint, USP 60 lb cases.	lb 2.50	: 2.60
Spruce, 50 lb tins.	lb 1.10	: 1.25
Tansy Amer., 20 lb tins.	lb 9.00	: 9.50
Tar, 50 gal. bbls.	gal. 24 1/2	: .26
Refined, USP 25 lb tins.	lb ...	: ..
Thyme, red, USP 25 lb tins.	lb .90	: 1.00
White, USP 25 lb tins.	lb 1.00	: 1.15
Crude, 110 lb drums.	lb .85	: .90
Vetiver, Bourbon 1 lb bot.	lb 5.00	: 6.00
Java, 1 lb bot.	lb 25.00	: 28.00
Wine, heavy 1 lb bot.	lb ...	: 2.75
WINTERGREEN,		
Sweet beh., 25 lb tins.	lb 2.00	: 2.00
Gaultheria, true 25 lb tins.	lb 4.00	: 7.00
Synthetic, USP 50 lb cases.	lb ...	: .44
Wormseed, Bals., USP 25 lb tins.	lb 3.25	: 3.50
Wormwood, dom., 25 lb tins.	lb 8.75	: 9.25
Ylang Ylang, Bourbon 10 lb tins.	lb 8.00	: 9.00
Manila, 1 lb bot.	lb 30.00	: 35.00
Artificial, 1 lb bot.	lb 10.00	: 12.00

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[NOVEMBER 1, 1922]

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NATURAL DERIVATIVES

Anethol, 2 lb bot.....	lb 1.60	: 2.00
Borneol, 1 lb bot.....	lb ...	: 3.50
Citronellal, 1 lb bot.....	lb 2.00	: 2.25
CITRAL, 25 lb cans.....	lb 2.80	: 3.25
EUCALYPTOL, USP, 25 lb cans..	lb .80	: .85
Eugenol, USP, 25 lb cans.....	lb 3.25	: 3.50
Geraniol, 50 lb cans.....	lb 2.25	: 3.00
Pure, 5 lb bot.....	lb 3.75	: 4.00
Iso-Eugenol, 1 lb bot.....	lb 4.25	: 4.50
Linalool, 5 lb bot.....	lb 4.75	: 5.00
MENTHOL, 60 lb cases.....	lb ...	: 7.00
Less cases, 5 lb cans.....	lb 7.25	: 7.50
Rhodinol, 1 lb bot.....	lb 15.00	: 16.00
SAFROL, 60 lb cans.....	lb .55	: .60
Thymol, USP, 10 lb cans.....	lb 4.00	: 4.25

SYNTHETIC AROMATICS

Acetaldehyde, 50% sol pure, 5 lb bot. lb	1.75	: 2.00
Acetophenone, CP, 1 lb bot.....	lb 4.00	: 4.25
Amyl Acetate, pure, 5 gal cans, gal	5.00	: 6.00
Amyl Butyrate, 1 lb bot.....	lb 2.00	: 2.10
Amyl Formate, 1 lb bot.....	lb 1.75	: 2.00
AMYL SALICYLATE, 100 lb chys, lb	1.25	: 1.40
Anisic Aldehyde, 1 lb bot.....	lb 4.00	: 4.50
BENZALDEHYDE, USP, 40 lb crystals	1.40	: 1.50
FFC, 40 lb chys.....	lb 1.60	: 1.70
Benzole Ether, See Ethyl Benzene		
Benzyl Acetate, 100 lb chys.....	lb 1.40	: 1.50
Benzyl Alcohol, 5 lb bot.....	lb 1.25	: 1.50
BENZYL BENZOATE, 5 lb bot.....	lb 1.90	: 2.00
Medicinal FFC	lb 2.10	: 2.20
Benzyl Formate, 1 lb bot.....	lb 2.50	: 2.00
Bromostyrol, 25 lb kgs.....	lb 3.50	: 4.00

Butyric Ether, See Ethyl Butyrate

Cinnamic Acid, 50 lb cans.....	lb 2.75	: 3.00
Cinnamic Alcohol, liquid 1 lb bot. lb	15.00	: 16.00
Crystallizable.....	lb 24.00	: 25.00
Cinnamal Aldehyde, 1 lb bot.....	lb 3.75	: 4.00
CITRONELLOL, 1 lb bot.....	lb 8.00	: 12.00
COUMARIN, 25 lb cans.....	lb 4.00	: 4.25
DIETHYL PHthalate, 25 lb cans lb	.90	: 1.00
Diphenyl oxide, 25 lb tins.....	lb .85	: .90
Ethyl Acetate, pure, 5 lb bot.	lb .45	: .50
Ethyl Benzoate, 5 lb bot.	lb 1.85	: 2.00
Ethyl Butyrate, 5 lb bot.	lb 2.00	: 2.25
Ethyl Cinnamate, 1 lb bot.	lb 5.00	: 5.50
Ethyl Formate, 5 lb bot.	lb 1.00	: 1.10
Ethyl Valerate, 5 lb bot.	lb 4.50	: 4.75
Fornic Ether, See Ethyl Formate		
Geranyl Acetate, 1 lb bot.	lb 5.00	: 5.75
Heliotropin, 10 lb bot.	lb 2.35	: 3.00
Indol, CP, 10x bot.	os 10.00	: 11.00
Ionone, 1 lb bot.	lb 5.50	: 8.00
Linalyl Acetate, 1 lb bot.	lb 8.00	: 9.00
Linalyl Benzoate, 1 lb bot.	lb 13.00	: 14.00
METHYL ANTRANILATE, 1 lb bot. lb	4.00	: 5.00
Methyl Cinnamate, 1 lb bot.	lb 5.50	: 5.75
Methyl Paracresol, 1 lb bot.	lb 8.00	: 9.00
METHYL SALICYLATE, USP 500 lb		
drums	lb ...	: .45
50 lb cases	lb ...	: .47
Second Hands	lb .43	: .44
Mirbane, rect. 1000 lb drums...lb	.12½	: .14
Musk Ambrette, 1 lb cans.....	lb 14.00	: 15.00
Musk Ketone, 1 lb cans.....	lb 12.50	: 13.00
Musk Xylene, 5 lb cans.....	lb 3.00	: 3.25
Nerolin, 1 lb cans.....	lb 2.00	: 2.50
Phenylacetaldehyde, 1 lb bot.	lb 7.50	: 8.00
Phenylactic Acid, 1 lb bot.	lb 3.00	: 4.00
PHENYLETHYLALCOHOL 1 lb bot. lb	6.00	: 8.00
Phenylpropylalcohol, 1 lb bot.	lb 15.00	: 16.00

TERPINOL, CP, 1000 lb drums, lb	.50	: .60
Cans 50 lb	lb .55	: .60
Imported, 25 lb cans.....	lb .70	: .75
Terpinyl Acetate, 25 lb cans....	lb 1.75	: 2.00
VANILLIN, USP, 400 oz cans, os	.43	: .45
Cans, 16 oz., 80 oz.....	os .45	: .46
Second Hands, cans.....	os .43	: .47
Valericane Ether, See Ethyl Valerate		
Tara Yara, 1 lb cans.....	os 2.00	: 2.50

PERFUMERS' SUNDRIES

Almond Meal, 25 lb cans.....	lb .28	: .35
Ambergis, black, bxs.....	os .80	
Ambergis, gray, bxs.....	os .28	
Balsam Copala, Para, 80 lb cans, lb	.24	: .25
South American, 80 lb cases..	lb .29	: .30
Balsam Peru, 60 lb cans.....	lb 1.70	: 1.75
Balsam Tolu, 90 lb cases.....	lb .70	: .75
Benzoin Gum, Siam, bxs.....	lb 1.40	: 1.60
Castoreum, 1 lb bot.	lb .40	
Chalk, precip. light, 175 lb bbls, lb	.04	: .04½
Cherry Laurel Water, 5 gal cans, gal	1.15	: 1.25
Civet Abyssinian, horns.....	os 2.05	: 2.80
Labdanum, 5 lb bot.	lb .18	: .20
Lanolin hydrate, 350 lb bbls, lb	lb .22	: .24
Anhydrous, 350 lb bbls.....	lb .22	
Musk pods, Cabardine, tins, os	16.00	: 17.00
Touquin, tins	os 22.00	: 25.00
Grains, Cabardine, tins	os 25.00	: 26.00
Touquin, tins	os 35.00	: 38.00
Synthetic, See Aromatic Chemicals		
Orris Root Flor, powd, bbls.....	lb .09	: .10
Verona, bbls	lb .09	: .10
Rice Starch, 140 lb bgs.....	lb .08	: .09
Rose Water, 5 gal chys.....	gal 1.25	: 1.50
Sandalwood chips, powd, bags, lb	.35	: .40
Saponin, 5 lb tins.....	lb 1.50	: 1.75
Talc Italian, 220 lb bgs.....ton	ton 30.00	: 40.00
Talc French, 220 lb bags.....ton	ton 20.00	: 30.00
Talc, domestic ref., 100 lb bags, ton	ton 20.00	: 30.00

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AGAR AGAR—10 bls., T. M. Duche & Sons, Kobe; 20 bls., P. Puttman, Kobe
ALOES—400 cs., R. Desvergne, Curacao; 33 cs., Suzarte & Whitney, Curacao; 1 cse., Gonzalos Ramos, Vera Cruz
ALUMINA—Hydrate, 500 bgs., R. W. Greeff & Co., Rotterdam; 17 csks., A. Hurst & Co., Hamburg
AMMONIUM SALTS—Carbonate, 44 bbls., J. Munroe & Co., Hamburg; Nitrate, 2,095 csks., Order, Hamburg
ANTIMONY—Crude, 100 bgs., C. Gitlen, Hanover
ARGOLS—204 csks., Tartar Chem. Wks., Naples
ARSENIC—Crude, 580 cs., Chipman Chem. Engineering Co., Yokohama; White, 160 cs., C. L. Huisking, Inc., Yokohama; 240 cs., Meteor Product Co., Yokohama
BALSAM—56 cs., Internl. Acceptance Bk., Para; Copaiha, 61 cs., Order, Para
BARIUM-Chloride, 29 csks., A. J. Morse, Hamburg; 31 bbls., Charles Page & Co., Hamburg; 28 csks., Order, Hamburg
BARK—615 bgs., Anderson Hillier Co., Hamburg; Cinchona, 11 cs., S. B. Penick & Co., Rotterdam; 16 cs., Anderson Hillier Co., Rotterdam; 233 bls., 20 cs., Order, Rotterdam
BERRIES—Juniper, 100 bgs., Order, Leghorn; 50 bgs., G. Segal Co., Leghorn; 150 bgs., Order, Leghorn; Hawthorn, 18 bgs., Brown

Bros. & Co., London; 9 bgs., Order, London; 13 bls., W. W. Merrell & Co., London
BISMUTH METAL—1 cse., Order, Southampton
CALCIUM-Chlorate, 400 csks., Order, Hamburg; Chloride, 165 drs., Order, Hamburg; **Permanganate**, 100 drs., Superfos Co., Hamburg
CAMPHOR—200 cs., Hitherman & Co., Kobe; 100 cs., J. D. Lewis, Kobe
CARBOLIC-Crystals, 105 drs., Meteor Products Co., Hull
CASEIN—228 bgs., Order, Glasgow; 67 bgs., Whitehouse Davia Co., Hamburg
CELLULOSE-Acetate, 1 cse., H. A. Metz & Co., Rotterdam
CINCHONIDINE—5 cs., Order, Rotterdam
COCA BUTTER—188 bls., Order, Hamburg
COLORS—2 cs., O. Hommel & Co., Bremerhaven; 1 cse., Garfield Nat. Bk., Havre; 1 cse., A. W. Maas Co., Havre; 14 csks., Kuttroff Pickhardt & Co., Rotterdam; 2 csks., Hensel Bruckmann & Lorbacher, Rotterdam; 12 cs., Amer. Exch. Nat. Bk., Rotterdam; 1 cse., H. K. Ackerman, Rotterdam; 6 cs., 4 csks., B. Bernard, Rotterdam; 2 csks., N. Y. Color & Chem. Co., Rotterdam; 3 cs., H. A. Metz & Co., Rotterdam; 6 pkgs., Textile Alliance, Rotterdam; 4 csks., Order, Rotterdam; 6 csks., Order, Genoa; 2 csks., Penick & Co., Havre; 1 cse., Fezandie & Sperrle, Hamburg; 1 cse., A. Hurst & Co., Hamburg; 25 cs., H. Kohnstamm, Hamburg; 5 csks., F. Henjes, Jr., Hamburg; 6 cs., H. Pietzsch, Hamburg; 8 cs., H. Pietzsch, Hamburg; 8 kgs., Order, Danzig; **Allzarine**, 8 cs., Kuttroff Pickhardt & Co., Rotterdam; 1 cse., H. A. Metz & Co., Rotterdam; **Bronze**, 15 cs., Order, Bremerhaven; Coal Tar, 9 cs., H. A. Metz & Co., Rotterdam; 25 drs., Order, Glasgow; Earth, 10 csks., Order, Marseilles; 22 bbls., A. D. Nenschaefer, Hamburg

COPPER-Oxide, 7 csks., Intern. Composition Co., Hull; **Powder Preparation**, 3 cs., Morganite Brush Co., Southampton; **Precipitate**, 8 csks., U. S. Metal Ref. Co., Liverpool; **Sulfate**, 70 csks., H. A. Watson & Co., Genoa; 73 bbls., Philipp Bros., Genoa
COPRA—33 bgs., Baker Cocoanut Co., St. Andrews; 23 bgs., Dunham Mfg. Co., St. Andrews; 58 bgs., Franklin Baker Co., Port Antonio; 1,300 bgs., T. Scott & Co., Trinidad
CREOLIN—1 cse., Order, Hamburg
RESOL—30 kgs., Monsanto Chem. Wks., Liverpool
CUBEBS—56 bgs., Amer. Exch. Nat. Bk., Singapore; 6 bgs., Order, Singapore
DEXTRINE—250 bgs., Stein Hall & Co., Rotterdam
DIVI DIVI—58 bgs., Amer. Trdg. Co., Maracaibo; 195 bgs., Paris & Co., Maracaibo; 1,424 bgs., Selma Merc. Co., Curacao
EPSOM SALTS—150 bgs., Anglo So. Amer. Bk., Hamburg; 50 csks., 1,700 bgs., Order, Hamburg
EXTRACT—20 cs., C. E. Chapal Freres & Co., Havre; **Logwood**, 50 bbls., Logwood Mfg. Corp., Cape Haitien; **Rennet**, 4 bbls., 4 kgs., 4 drs., Meadows Wye & Co., Copenhagen
GAMBIER—850 cs., Nat. Prov. & Union Bk., Asahan
FLOWERS—38 bls., Anderson Hillier Co., Hamburg; 19 bls., Peek & Velsor, Hamburg; 20 bls., Anderson Hillier Co., Hamburg; **Chamomile**, 20 bls., Anderson & Hillier Co., Antwerp; 57 cs., First Nat. Bk. Minneapolis, Antwerp; 25 cs., Murray & Nickel, Hamburg; Dry, 4 bls., Order, Marseilles; **Lavender**, 32 bls., Order, Marseilles
GARNET LAC—200 bls., Order, Calcutta; 200 bgs., Lee Higginson & Co., Calcutta
GLYCERIN—50 drs., Order, Antwerp
GUM—7 cs., G. Lueders & Co., Havre; **Benzoin**, 12 cs., Peek & Velsor, London; 20 cs.,

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HERBS—6 bbls., J. L. Hopkins & Co., Antwerp; 45 bbls., Peek & Velsor, Antwerp; 2 bbls., Order, Genoa; 120 bbls., Bernard Judae & Co., Leghorn; 25 bbls., J. Schoenegan, Hamburg; 8 bbls., Anderson Hillier Co., Hamburg; Medical, 28 bbls., Order, Leghorn

HYPOSULFIDE—220 csks., Johnson & Sons, Hamburg

INSECTICIDE—14 cs., 5 drs., Stumpf & Walter Co., London

IRON OXIDE—15 csks., Order, Marseilles

IRON PERCHLORIDE—59 csks., W. Schall & Co., Hamburg

LEAVES—25 bbls., Anderson Hillier Co., Hamburg; Digitalis, 100 bgs., Order, Hamburg; Dry, 14 bbls., Order, Marseilles

LEECHES—2 tubs, C. Jacobellis, Naples

LITHOPONE—80 csks., E. M. & F. Waldo Bros., Antwerp; 40 csks., Reichard Coulston, Rotterdam

LYCOPODIUM—2 cs., Continental Shpg. Corp., Danzig; 1 cse., C. B. Richard & Co., Danzig

MENTHOL—25 cs., H. J. Baker & Bros., Kobe; 20 cs., McKesson & Robbins, Kobe; 10 cs., Magnus Mabee & Reynard, Kobe

MERCURY—1 cse., W. Van Doorn, Rotterdam

MYROBALANS—600 bbls., Order, Calcutta; 2,240 pkts., Order, Calcutta

OILS—Caster, 150 bbls., Order, Hull; Coconut, 67 tons, Balfour Williamson & Co., Manila; Codliver, 50 bbls., Schieffelin & Co., Rotterdam; 200 bbls., Foreign Freight Agent, Bergen; Fusel, 19 bbls., E. I. du Pont de Nemours Co., Antwerp; Haarlem, 30 cs., Lehn & Fink, Rotterdam; Kernel, 100 bbls., Order, Hull; Linseed, 184 bgs., Nairn Lino Co., Hull; 320 bgs., Nairn Linoleum Co., Hull; Lubricating Mineral, 4 bbls., Oversea Oil Co., Antwerp; Nut, 769 tons, Paterson Boardman & Knapp, Hankow; Olive, 2 bbls., T. Mirella, Messina; 5 csks., R. Brammaccio, Naples; 100 bbls., First Nat. Bk., Boston, Leghorn; 100 cs., Italian Impg. Co., Genoa; 100 bbls., Nat. City Bk., Genoa; 250 cs., Banca Comm. Ital., Genoa; 200 cs., East River Nat. Bk., Genoa; 200 cs., A. Fiore & Co., Genoa; 210 cs., P. Pastene & Co., Genoa; 25 cs., Oceano Shipping Co., Genoa; 90 cs., Buongiorno & Zammataro, Genoa; 100 cs., F. R. Marzulli, Genoa; 50 cs., F. C. Tripi & Co., Genoa; 30 cs., L. Bergonzi, Genoa; 200 cs., Parisi Bros., Genoa; 300 cs., Oceano Shpg. Co., Genoa; 1,215 cs., Order, Genoa; 5 cs., Gallagher & Ascher, Genoa; 17 pkgs., General Transport Co., Genoa; 2 bbls., Italo Montella, Genoa; 200 sc., N. Giavi, Geneva; 105 cs., E. E. Marks & Co., Geneva; 75 cs., P. Parlato, Geneva; 136 cs., Order, Geneva; 25 cs., C. Lazzetta, Naples; 19 pgs., Hudson Trdg. & Shpg. Co., Naples; 2 bbls., Tice & Lynch, Genoa; 150 cs., J. Petrocelli & Co., Genoa; 400 cs., F. Alessio & Co., Genoa; 405 cs., Order, Genoa; 325 cs., East River Nat. Bk., Leghorn; 2,980 cs., Order, Leghorn; 40 cs., Order, Marseilles; 50 cs., Lazar Freres, Bordeaux; 2 bbls., V. Morello, Messina; 1 bbl., B. Tulera, Messina; 2 cs., G. Crimi, Messina; 14 cs., A. Sicarra, Messina; 7 pgs., Columbo Co., Messina; 5 bbls., V. Miellet, Messina; Palm, 164 csks., Bk. of Brit. West Africa, Liverpool; Kernel, 100 bbls., Order, Hull; Perilla, 1,500 cs., Cook & Swan Co., Kobe; Rapeseed, 200 bbls., Hudson Oil Co., Hull; 100 bbls., Boyer Kiente, Ltd., Hull; 149 bbls., First Nat. Bk., Boston, Hull; 60 bbls., Tunley & Co., Hull; 100 bbls., Order, Hull; 50 bbls., Beter Kienele & Co., Hull; 100 bbls., Tunley & Co., Hull; 1,500 bbls., Vacuum Oil Co., Hull; Wood, 1,200 bbls., Mitsui & Co., Shanghai

OILS, ESSENTIAL—16 cs., Dodge & Olcott, Havre; 4 csks., Bk. of N. Y., Havre; 2 cs., Orbis Products Trdg. Co., Havre; 72 cs., Von Bremen Asche & Co., Geneva; 89 cs., P. Colonna, Naples; 14 cs., G. Carliomagna, Naples; 2 cs., Morana, Inc., Havre; 25 cs., Unger & Co., London; 100 cs., Lautier Fils, Messina; 304 cs., Orbis Products Trading Co., Messina; 2 cs., F. Crisafulli, Messina; 700 cs., Order, Messina; 1 bbl., Messinat, Bk., Hamburg; 2 cs., Order, Hamburg; Almond, 2 cs., C. L. Huisking, Messina; Bay, 11 cs., R. Moellhausen, St. Lucia; 3 cs., Tropical Develop. & Trdg. Co., Dominica; 1 cs., R. Moellhausen, Guadeloupe; 7 cs., Santoli & Co., Arroyo, Bergamot, 20 cs., East River Nat. Bk., Messina; 200 cs., A. Chris Co., Messina; 25 cs., Brown Bros. & Co., Messina; 25 cs., Heidelbach Ickelheimer & Co., Messina; 40 cs., Order, Messina; Cade, 1 drum, Order, Hamburg; Camphor, Brown, 100 drs., Dodge & Olcott Co., Kobe; Citronella, 11 drs., Amer. Exch. Nat. Bk., Colombo; 5 drs., Amer. Exch. Nat. Bk., Colombo; 10 csks., J. A. Miller, Havre; Lavender, 1 cse., Yardley & Co., London; Lemon, 100 cs., East River Nat. Bk., Messina; 280 cs., A. Chris Co., Messina; 111 cs., Brown Bros. & Co., Messina; 100 cs., C. L. Huisking, Messina; Lime, 7 cs., Planters Produce Co., Dominica; Orange, 100 cs., G. Lueders & Co., Messina; 40 cs., A. Chris Co., Messina; 51 cs., Brown Bros. & Co., Port Antonio; Patchouli, 5 cs., Huth & Co., Singapore

OSSEINE—1,270 bgs., Order, Antwerp; 500 csks., Order, Marseilles

PAPAIN—1 cse., C. L. Huisking, Kobe

PHOSPHATE—500 bgs., Order, Antwerp

PHOSPHORUS-Pentoxide, 8 cs., Bengol Trdg. Co., Hamburg; Pepsirupsulfite, 10 cs., W. E. Miller, Antwerp; White, 320 cs., W. E. Miller, Antwerp; 300 cs., W. E. Miller, Antwerp

PIASSAVA—980 bbls., Order, Hamburg

PIMENTO—250 bgs., Nortz & Co., Port Antonio

PLUMBAGO—1 cse., Amer. Exp. Co., Colombo; 100 bbls., H. P. Winter & Co., Colombo; 150 bbls., Brown Bros. & Co., Colombo; 3 bbls., G. E. Pettinos & Co., Colombo; 325 bbls., Irving Nat. Bk., Colombo; 90 bbls., Nat. City Bk., Colombo; 96 bbls., First Federal Foreign Biking Corp., Colombo

POTASSIUM SALTS—5 csks., Order, Hamburg; Chloride, 1,000 bgs., Soc. Conim des Potasses d'Alsace, Antwerp; Permanganate, 19 drs., Order, Antwerp; Prussiate, 12 csks., Superfos Co., Copenhagen; 11 pkgs., Order, Danzig

QUININE—25 cs., Mallinckrodt Chem. Wks., Rotterdam; Products, 23 cs., Amer. Exp. Co., Rotterdam; 20 cs., W. Van Doorn, Rotterdam

REFUSE LAC—500 bgs., Bank of Manhattan Co., Calcutta; 500 bgs., Bank of Manhattan Co., Calcutta; 100 bgs., Bank of Amer., Calcutta

RENNET—10 csks., 5 kgs., Bernhan Chem. & Metal Corp., Copenhagen; Powder, 2 cs., Penn, R. R. Co., Copenhagen

ROOT—60 bbls., First Nat. Bk., Minneapolis, Antwerp; 4 cs., W. Van Doorn, Rotterdam; 3 cs., A. Stallman & Co., Hamburg; 11 bbls., Peek & Velsor, Hamburg; 7 bbls., J. Schoenegan, Hamburg; 6 bbls., 3 cs., Anderson Hillier Co., Hamburg; Broom, 156 bbls., Sociedad Anonima de Minas & Montes, Vera Cruz; Gentian, 57 bbls., Order, Marcellus; Ipecac, 5 bgs., Order, Manaus; 1 Licorice, 143 scks., Order, Marseilles; 100 cs., C. Recchione, Naples; Orris, 229 bgs., Order, Leghorn; Sarsaparilla, 205 bgs., 2 cs., Order, Leghorn; Vera Cruz; Scammony, 4 bgs., Order, Hamburg; Valerian, 11 bgs., Order, Calcutta

SAFFRON—1 cse., Order, Geneva; 11 bbls., Gomez & Sloan, Vera Cruz

SAL AMMONIAC—35 csks., Order, Hamburg SALT—50,041 bushels, Order, Turks Island

SEED—6 bgs., Pasquale Rinaldi, Naples; 118 bgs., G. W. Sheldon & Co., Rotterdam; 108 cs., Order, Rotterdam; 10 bgs., Anderson Hillier Co., Hamburg; Anise, 80 cs., W. N. Tappenebeck, Hongkong; Annatto, 175 bgs., Order, Rotterdam; Clover, 130 bgs., Order, London; Coriander, 354 bgs., G. T. German, London; 250 bgs., Vulcan Foreign Commerce, Rotterdam; Cumin, 200 bgs., G. T. German, London; Millet, Red, 1,111 bgs., G. W. Sheldon & Co., Kobe; Mustard, Yellow, 48 bgs., Catz Amer. Co., Rotterdam; Poppy, 100 bgs., C. E. Armstrong, Rotterdam; 100 bgs., Levy & Lewis Co., Rotterdam; 100 bgs., Levy & Lewis Co., Rotterdam; 400 bgs., Frame & Co., Rotterdam; 200 bgs., Archibald & Lewis, Rotterdam; 50 bgs., Liebman Bros., Rotterdam; 150 bgs., Graham Co., Rotterdam; 150 bgs., Archibald & Lewis, Rotterdam; 100 bgs., Crandall Petree Co., Rotterdam; 98 bgs., Order, Rotterdam; Rape, 280 bgs., C. J. Spero & Son, Rotterdam; Staranised, 25 cs., Order, Hongkong

SEED LAC—124 bgs., Bank of Amer., Calcutta

SENNNA—34 bgs., Order, London

SHELLAC—450 cs., Brown Bros. & Co., Calcutta; 200 bgs., Bk. of Manhattan Co., Calcutta; 50 bgs., Irving Nat. Bk., Calcutta; 925 bbls., Order, Calcutta; 100 cs., Lee Higgins & Co., Calcutta; 200 bgs., Mechanics & Met. Nat. Bk., Calcutta; 100 bgs., Br. Bk. of So. Amer., Calcutta; 100 bgs., London & Liverpool Bk. of Commerce, Calcutta; 400 bgs., Brown Bros. & Co., Calcutta; 220 bgs., 51 cs., Order, Calcutta; 498 bgs., Ralli Bros., London; Garnet, 50 bgs., Irving Nat. Bk., Hamburg

SOAP—4 cs., Yardley & Co., London; 600 bxs., Irving Nat. Bk., Leghorn; 300 cs., C. L. Huisking, Inc., Leghorn; 500 cs., Leghorn Trdg. Co., Leghorn; 50 cs., Order, Leghorn; 3 cs., Draeger Shpg. Co., Hamburg

SODIUM SALTS—Bromide, 200 cs., Superfos Co., Hamburg; Chlorate, 25 drs., A. H. Pickering, Genoa; 200 drs., Brown Bros. & Co., Genoa; Cyanure, 112 cs., Nat. City Bk., Havre; Prussiate, 29 bbls., T. F. Bischoff, Antwerp; 12 csks., H. W. Peabody & Co., Rotterdam; 26 csks., Bernhard Scholle & Co., Rotterdam; 118 csks., Order, Rotterdam; 19 cs., Irving Nat. Bk., Hamburg; Silicate, 39 bbls., P. N. Braun, Genoa; Sulphide, 200 drs., Guaranty Trust Co., Antwerp; Superborat, 32 drs., Nat. Amer. Bk., Hamburg; Yellow Prussiate, 9 csks., Order, Antwerp

TALC—930 bgs., Ital. Disc. & Trust Co., Genoa; 300 bgs., C. Mathieu, Genoa; 400 bgs., Parfum de Luxe Coty, Genoa; 1,200 bgs., Ital. Disc. & Trust Co., Genoa; 400 bgs., C. Mathieu, Genoa; 20 scks., Order, Marseilles

TAPIOCA—Flour, 1,584 bgs., Kane Mfg. Co., Rotterdam; 2,221 bgs., Order, Rotterdam; Pearl, 188 bgs., Bridge & Co., Singapore; 187 bgs., Order, Singapore; Seed, 128 bgs., Bridge & Co., Singapore; 72 bgs., Order, Singapore

TARTAR—36 csks., Tartar Chem. Wks., Naples; Cream, 25 csks., Order, Rotterdam

UMBER—70 csks., L. H. Butcher Co., Hull

UREA—80 pkgs., Kuttroff Pickhardt & Co., Rotterdam; 45 pkgs., Kuttroff Pickhardt & Co., Rotterdam

WAX—Carnauba, 205 bgs., London & River Plate Bk., Bahia; 8 bgs., W. R. Grace & Co., Bahia; 68 bgs., Internat Acceptance Bk., Ceara; 212 bgs., London & Brazil Bk., Ceara; 235 bgs., Lazar Freres, Ceara; 125 bgs., Irving Nat. Bk., Ceara; 55 bgs., Natl. Park Bk., Ceara; 29 bgs., Order, Ceara; Vegetable, 300 cs., Strohmeyer & Arpe Co., Kobe

ZINC-OXIDE, 100 csks., E. M. & F. Waldo Bros., Antwerp

During the meeting of the American Iron and Steel Institute, in New York, last week, Judge Gary of the United States Steel Corporation expressed optimistic views of the business outlook in a speech at the opening of the convention. Other leaders in the industry said that conditions were better than for some time.

The Channell Chemical Co. of Chicago has declared dividends of \$2 a share on the Class "B" stock, payable Jan. 2 to holders of record Dec. 20, of \$1.50 a share on the Class "A" stock, payable Nov. 1 to holders of record Oct. 17 and of 3½ per cent on the preferred, payable Jan. 2 to holders of record Dec. 30.

IMPORTS AT SAN FRANCISCO

Imports at San Francisco for the third week of October included the following: On the steamer Astronomer, from London, to order 30 bales cassia; from Liverpool, to order 884 crates palm oil, to Balfour, Guthrie & Co. 264 crates silicate of soda and 1,290 bags china clay, to the Sherwood Co. 75 barrels ginger ale, to order 500 bags cocoa and 67 cases zinc oxide. On the steamer West Ivan, from Singapore, to order 50 cases gum copal, 25 cases gum damar, 80 bags nutmegs and 205 cases gambier, to the Pacific Orient Co. 35 bags nutmegs; from Zamboanga, to Atkins, Kroll & Co. 2,029 sacks copra, to El Dorado Oil Works 1,589 sacks copra; from Legaspi, to El Dorado Oil Works 8,066 sacks copra and to International Banking Corporation 3,624 sacks copra; from Lobaco, to El Dorado Oil Works 800 sacks copra, and to International Banking Corporation 2,525 sacks copra; from Cebu, to International Banking Corporation 3,656 sacks copra; from Romblon, to El Dorado Oil Works 317.89 long tons copra. On the steamer Bohemian Club, from Manila, to Babcock & Templeton, 3,118 sacks copra and to Procter & Gamble 1,000 short tons cocoanut oil.

The American Zinc, Lead and Smelting Co. reports net profits of \$126,191 for the quarter ended Sept. 30, before depreciation, against a deficit of \$22,418 in the same period last year. For the first nine months of the year net profits totaled \$286,959, against a deficit of \$148,331 in 1921.

The American Smelting and Refining Co. is negotiating for the sale of an issue of bonds, amounting to between \$5,000,000 and \$6,000,000 for use in Mexico. Kuhn, Loeb & Co. are the bankers.

CANADA BUYING MORE U. S. DRUGS

(*Special to DRUG & CHEMICAL MARKETS*)

Toronto, Canada, Nov. 1.—The monthly report of the Trade of Canada for August gives the value of imports of dyeing and tanning materials as follows: From Britain, \$13,114; United States, \$210,886; other countries, \$50,078; total, \$274,078; compared with imports from Britain, \$12,785; United States, \$201,387; other countries, \$80,275; total, \$294,447, for August, 1921.

Imports of aniline and coal-tar dyes included in the above were: From Britain, 22,450 lbs., value \$9,683; United States, 156,056 lbs., value \$101,383; Germany, 14,026 lbs., value \$14,636; Netherlands, 7,450 lbs., value \$9,700; Switzerland, 8,326 lbs., value \$5,621; other countries, 12,131 lbs., value \$9,927; total, 220,439 lbs., value \$150,950; compared with imports from Britain, 8,200 lbs., value \$8,913; United States, 72,160 lbs., value \$80,314; Germany, 673 lbs., value \$2,587; Switzerland, 5,545 lbs., value \$6,251; total, 86,578 lbs., value \$98,065, during August, 1921.

For the quarter ending Oct. 1, the Coca Cola Co. reports a net income of \$2,464,767 after deducting all expenses and interest charges. This figures \$2.43 per share. In the previous quarter the stock earned \$5.16 per share.

The Diamond Match Co. has declared the regular quarterly dividend of \$2 a share, payable Dec. 15 to stock of record Nov. 30.

The Corn Products Refining Co., Inc., has filed a judgment for \$3,287.95 against the Triangle Products Co., Inc.

Wanted by a Dutchman—

REPRESENTATION *for* THE NETHERLANDS INDIES

from a first class Chemical Factory. Inclined to establish himself at Java or Sumatra. Detail offers to N. R. PAPPE.

Chemicals Scheveningen.
(Holland)

ACIDS
Muriatic Mixed
 Sulphuric
CONTACT PROCESS CO.
BUFFALO, N.Y.

STEEL TANKS

1500

New and slightly used steel tanks in all sizes and kinds. Pressure tanks, mixing tanks, storage tanks, pump tanks, heating tanks, etc. Write for Bulletin No. 7, giving sizes and descriptions.

NASHVILLE INDUSTRIAL CORP.
Jacksonville, Tennessee

[NOVEMBER 1, 1922]

Wants & Offers

BUSINESS OPPORTUNITIES

THE ADVERTISER is desirous of getting into communication with Chemical Manufacturers making chemicals suitable for the Textile, Paper and Rubber trades also Dye-wood and Tannic Acid makers. He has an extensive business extending over the last twenty-five years with a central office in Manchester. Would accept agency or finance own business. Box 797, Ashburner's Advertising Agency, 10, Piccadilly, Manchester, England.

WANTED—Buyers of all Indian raw produce for medicinal and tanning purposes at rates defying competition. Cash against documents. Indian (Export & Import) Agency, Post Box 233, Madras India.

MANUFACTURERS—Chemical jobbing house with exceptionally good connections among consumers of chemicals in textile industry, desire output of one or two small plants manufacturing textile chemicals. Also interested in chemicals for tanning, paper and allied industries. Address Box 262, DRUG & CHEMICAL MARKETS.

RECEIVERS SALE of plant and equipment of Transatlantic Chemical Corporation, Monday, Nov. 27, 1922. Adapted for the extraction and refining of vegetable oils, the manufacture of sulphonated and textile oils, or making dyestuffs, soap, paint, varnish, etc., or the manufacture of coal tar, pharmaceutical and proprietary preparations. All particulars and inspection upon request. Edmund B. Clary; Clark McK. Whitemore, Receivers, Linden, N. J.

BUSINESS OPPORTUNITIES

CHICAGO CONCERN wishes representatives of one or two good houses dealing in materials used by perfume, soap, and flavoring extract mfrs. Have large storing space and can carry stock. Box 260, DRUG & CHEMICAL MARKETS.

HELP WANTED

BLEACHING POWDER—Wanted a Chemist or Foreman with experience in the manufacture of Bleaching Powder by the Weldon Process. Box 248, DRUG & CHEMICAL MARKETS.

A SALESMAN who knows the Essential Oil, Perfume and Soap trade thoroughly. One who can sell a complete line of foreign perfume bases. Must be unusually competent and have good personality. Answer stating qualifications and salary desired. Box 244, DRUG & CHEMICAL MARKETS.

SALESMEN (3) with headquarters in Philadelphia, Pittsburgh, and St. Louis, to sell chemical raw materials for an old established firm. Salary will be commensurate with ability shown. State in detail and in confidence your experience, age and salary expected. Box 255, DRUG & CHEMICAL MARKETS.

LABORATORY MAN experienced in the manufacture of shaving and dental cream. Must be capable of producing superior quality. Box 258, DRUG & CHEMICAL MARKETS.

TEXTILE CHEMIST with experience in finishing cotton goods. State age, experience and salary expected when applying. Box 256, DRUG & CHEMICAL MARKETS.

HELP WANTED

PHARMACEUTICAL SALESMEN (2) Large reputable manufacturer of digestive ferments, gland substances and animal derivatives, selling doctors, hospitals, retail and wholesale druggists, has attractive opening for first-class combination detail and salesmen to cover New York City and Brooklyn, and one to cover the city of Philadelphia. Successful applicants must be familiar with products we offer and possess both detail and selling ability and be able to deliver volume business. Reply in detail giving full particulars, past experience, age, salary requirements and general qualifications. Box 257, DRUG & CHEMICAL MARKETS.

CHEMICAL SALESMAN, capable of working along established line also developing his own business, not an order taker or peddler, but a real salesman, is offered a very good opportunity in growing successful chemical house. State age, experience and remuneration expected. Replies treated confidentially. Box 258, DRUG & CHEMICAL MARKETS.

SITUATIONS WANTED

WANTED position by Drug & Sundries Salesman, 19 years experience with Drug trade in western Penna. Box 252, DRUG & CHEMICAL MARKETS.

POSITION WANTED by progressive all around thoroughly trained wholesale drug man 38 years of age. Box R. K. 237, DRUG & CHEMICAL MARKETS.

ALL AROUND wholesale drug man wishes to connect with reliable house, preferably in the West. Box RX 254, DRUG & CHEMICAL MARKETS.



Manufacturers

SODA ASH 58%

CAUSTIC SODA 76-78%

Our complete plants at Painesville, Ohio are directly served by three trunk line railroads. We are excellently situated to serve you to advantage.

Modified Soda

Special Alkali

Bicarbonate of Soda U. S. P.

Please address all inquiries to our General Offices at Pittsburgh, Pa.

DIAMOND ALKALI CO.

PITTSBURGH,

PENN.

Wants and Offers—*The Marketplace of the - - Drug and Chemical Industries*

SITUATIONS WANTED

CHEMIST—Mass. Inst. of Tech. 1922 graduate desires position as chemist or chemical engineer with an organic manufacturing firm. Experience as salesman and chemist. Salary no object. References. Box 250 DRUG & CHEMICAL MARKETS.

CHEMICALS—Young man, educated, commercial and army experience, knowledge of technical terms, also Spanish, desires clerical position. Louis Goodman, 148 West 113th Street.

TECHNICAL man, chemist, wants a situation as foreman in the manufacture of mineral and organic acids, anhydrides and other derivatives; acetic anhydride by the chlorine (cl) sulphur dioxide (SO_2) process; long experience in the use of catalytic effects, grillo mass and others; American and British experience. Box 249, DRUG & CHEMICAL MARKETS.

DRUGS AND CHEMICALS

WANTED—Iron or steel borings. Franken, Chatham, New Jersey.

OFFER Tale, high grade imported, also various surplus drugs; attractive prices. Fulton Laboratories, Inc., 207 Water St., N. Y. City.

FOR SALE: American Medicinal Roots, Herbs, Barks, Seeds, Flowers, Witch Hazel leaves, Ginseng, etc. Inquiries solicited. Joseph Powell Co., Bristol, Tenn.

DRUGS AND CHEMICALS

WANTED: odd and surplus lots of chemicals, dyes, drugs, intermediates, oils, gums, etc. Dye Drug and Chemical Co., 105 John St., N. Y. City, Beckman 7568.

FOR SALE 500 lbs. technical Benzaldehyde in carboys. Address Box 251, DRUG & CHEMICAL MARKETS.

FOR SALE—In quantity lots attractive prices Silver Proteinate and Protargentum, Squibb make, in 1 oz. bottles; also Paraformaldehyde billets Schieffelin make 100—1-10 gr. to the bottle. Box 262, DRUG & CHEMICAL MARKETS.

WANTED—by manufacturer large quantities of Phthalic Anhydride for immediate and future delivery. Box 259, DRUG & CHEMICAL MARKETS.

SUBSCRIBER OFFERS for sale 1,000 lbs. Hexamethylene U.S.P. in kegs of 100 lbs. Submit bids. Box 261 DRUG & CHEMICAL MARKETS.

PLANT EQUIPMENT

WANTED, enameled pot 100-125 gallons with or without jacket; also several iron drums with removable head. Franken, Chatham, New Jersey.

WANTED: an Emulsifier, about 25 gallon capacity. State full particulars and price, also maker's name. A. A. P. Corp., 57 New Chambers St., N. Y. City.

PLANT EQUIPMENT

WANTED: Small mixer and color mill, laboratory size. State make and price. Box 357, Passaic, N. J.

WANTED: Sharples Super Centrifuge, belt driven. Must be in perfect condition. State full particulars and price. Box 241, DRUG & CHEMICAL MARKETS.

FOR SALE: Machinery and supplies, cotton, worsted, print works, second-hand. Send for description of offerings. Box 240, DRUG & CHEMICAL MARKETS.

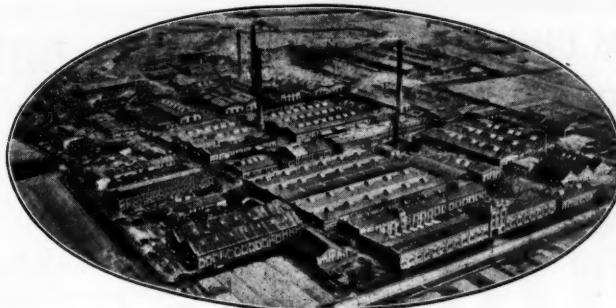
WANTED: Single effect Vacuum or Evaporation Fan approximately 11 ft. 6 in. dia. by 8 ft. 6 in. on straight side, with conical bottom. Send full description, also cuts or blue prints and price. Answer 2 Cyril Terrace, Akron, Ohio.

MISCELLANEOUS

ASK THE Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City. If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.

DI

P & B



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View taken from
an airplane
in 1921

E. DE HAËN A.-G.

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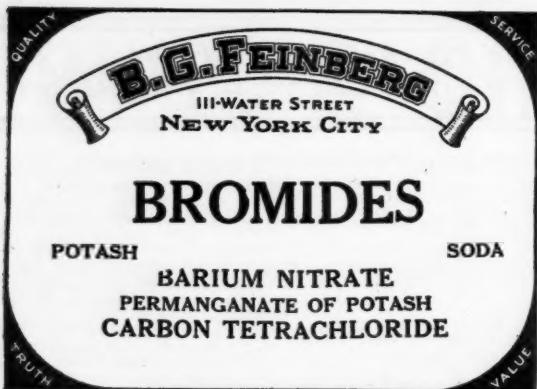
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Pfaltz & Bauer, Inc.
300 PEARL STREET · NEW YORK

P & B

[NOVEMBER 1, 1922]



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CHEMICAL APPARATUS

Manufacturers of fine and heavy chemicals, dyestuffs, pharmaceuticals, etc., who are users of chemical apparatus, machinery, and equipment are regular subscribers to DRUG & CHEMICAL MARKETS. The big executives, purchasing agents, plant superintendents—the real buyers of these supplies—read this paper because it keeps them posted on news and the markets. Its pulling power as an advertising medium for chemical apparatus is proved.

Write us for the proofs and our advertising rates.

Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

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Battelle & Renwick
Bowker Chemical Co.
Church & Dwight
The Cleveland-Cliffs Iron Co.
Commercial Solvents Corp.
Contact Process Co.
Chas. Cooper & Co.
Danco Sales Corp.
Diamond Alkali Co.
The Dow Chemical Co.
E. I. du Pont de Nemours & Co.
Ellis Jackson & Co.
B. G. Feinberg
General Chemical Co.
Grasselli Chemical Co.
Wm. S. Gray & Co.
R. W. Greeff & Co.
Edward Hill's Son & Co.
Industrial Chemical Co.
Iannis Speiden & Co.

McKechnie Bros.
Merchants Chemical Co.
Meteor Products Co.
Mathieson Alkali Works
The Miner-Edgar Co.
Monsanto Chemical Works
Nichols Copper Co.
Pfaltz & Bauer
The Selden Co.
Roessler & Hasslacher Chem.
Semet Solvay Co.
Solvay Process Co.
Stein Hall & Co.
Superfos Company
U. S. Industrial Alcohol Co.
Victor Chemical Works
The Warner Chemical Co.
Wilkes-Martin-Wilkes Co.
Jacques Wolf & Co.

FINE CHEMICALS

Abbott Laboratories
Baird & McGuire
Bowker Chemical Co.
Carbide & Carbon Chem. Corp.
Chicago Starch Co.
Antoine Chiris Co.
Commercial Solvents Corp.
Commonwealth Chemical Corp.
Charles Cooper & Co.
Danco Sales Corp.
The Dow Chemical Co.
Eastman Kodak Co.
Electro Bleaching Gas Co.
B. G. Feinberg
E. Fougers & Co.
Grasselli Chemical Co.
Guasti-Finch Chem. Co.
William S. Gray & Co.
R. W. Greeff & Co.
Hoffman-La Roche Chem. Wks.
Industrial Chemical Co.

Jose Lopez
Magnus, Mabee & Reynard, Inc.
Mallinckrodt Chemical Works
May & Baker
Merck & Co.
Meteor Products Co.
H. A. Metz & Co.
The Miner-Edgar Co.
Monsanto Chemical Works
Perth Amboy Chem. Wks.
Pfaltz & Bauer
Pharma Chem. Corp.
Powers-Weightman-Rosengarten
Roessler & Hasslacher Chem. Co.
Rhodia Chem. Co.
Chas. V. Sparhawk
Stein Hall & Co.
Superfos Company
Ungerer & Co.
U. S. Industrial Chemical Co.
Victor Chemical Works
Wilkes-Martin-Wilkes Co.

DYE STUFFS

Calco Chemical Co.
Dow Chemical Co.
Dye Products & Chem. Co.
Essex Aniline Works
E. I. du Pont de Nemours & Co.
Ellis Jackson & Co.
Gary Chem. Co.
Grasselli Chemical Co.

H. A. Metz & Co.
National Aniline & Chemical Co.
New Brunswick Chem. Co.
Newport Chemical Works
Pharma Chem. Corp.
Southern Dyestuffs Co.
Stein Hall & Co.
Jacques Wolf & Co.

COAL TAR PRODUCTS

Abbott Laboratories
Baird & McGuire
The Barrett Co.
Calco Chemical Co.
Chatfield Mfg. Co.
Commonwealth Chemical Corp.
Essex Aniline Works

E. I. du Pont de Nemours & Co.
Jordan Coal Tar Products Co.
H. A. Metz & Company
Monsanto Chemical Works
National Aniline & Chemical Co.
Newport Chemical Works
Protexol Corp.
Southern Dyestuffs Co.

FATTY OILS

Antoine Chiris Co.
New Brunswick Chem. Co.

Jacques Wolf & Co.

ESSENTIAL OILS

M. L. Barrett & Co.
W. J. Bush & Co.
Antoine Chiris Co.
Fries & Fries Co.
Fritzache Bros.

Magnus, Mabee & Reynard, Inc.
Morana, Incorporated
Pfaltz & Bauer, Inc.
Chas. V. Sparhawk
Ungerer & Co.

CRUDE DRUGS

Ameousema Am. Trad'g House
M. L. Barrett & Co.
W. J. Bush & Co.
E. Fougers & Co.
Hoffman-La Roche Chem. Wks.

Jose Lopez
Magnus, Mabee & Reynard, Inc.
Morana, Incorporated
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EQUIPMENT

Buffalo Foundry & Machine Co.
The Chemical Age
Chemical Trade Journal

Nashville Industrial Corp.
The Revue de Produits Chimique
The Yakugyo Shoho



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FOR THIS JOURNAL

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Alpha Naphthylamine

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Tolidine Base

Meta Phenylene Diamine

Meta Toluylene Diamine



Newport Chemical Works, Inc.

Passaic, New Jersey

[NOVEMBER 1, 1922]

Iodine, Distilled

*More Than 99 Per Cent Pure
Free from Chlorine, Bromine, Mineral Residue and Organic Matter.*

**Five Pound Bottles-Four to a Case
One Pound Bottles-Twelve to a Case**



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Sales Offices:

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BOSTON, 943 Cambridge St.	NEW ORLEANS, 1008 Maison Blanche Bldg.
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FOR
MANUFACTURING, INDUSTRIAL, SCIENTIFIC
AND TECHNICAL PURPOSES

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Executive Offices:
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BALTIMORE	A. L. Webb & Sons, Inc., 201 Maryland Trust Building
PHILADELPHIA	Pennsylvania Alcohol & Chemical Co., 141 North Front Street
BOSTON	U. S. Industrial Alcohol Co., 943 Cambridge St., E. Cambridge, Mass.
BUFFALO	U. S. Industrial Alcohol Co., 4th and Pennsylvania Streets
CHICAGO	U. S. Industrial Alcohol Co., First National Bank Building
ST. LOUIS	U. S. Industrial Alcohol Co., 1434 North Broadway
KANSAS CITY	U. S. Industrial Alcohol Co., 1400 West 10th Street
NEW ORLEANS	U. S. Industrial Alcohol Co., 1008 Maison Blanche Building
PITTSBURGH	U. S. Industrial Alcohol Co., 601 Empire Building
CLEVELAND	U. S. Industrial Alcohol 374 Kirby Building
DETROIT	U. S. Industrial Alcohol Co., 610 Union Trust Building
INDIANAPOLIS	U. S. Industrial Alcohol Co., 129 North Davidson Street
CINCINNATI	U. S. Industrial Alcohol Co., Evans St. and C. H. D. R. R. Crossing
PEORIA	U. S. Industrial Alcohol Co.

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